EXHIBIT DX2

TO DECLARATION OF
DEBORAH E. LEWIS IN SUPPORT
OF DEFENDANTS' OPPOSITION
TO PLAINTIFFS' MOTION
TO EXCLUDE TESTIMONY OF
ALEXANDER A. HANNENBERG, M.D.

CASE 0:15-md-02666-JNE-DTS Doc. 896-2 Filed 10/03/17 Page 2 of 79

		Page 1
1	UNITED STATES DISTRICT COURT	
2	DISTRICT OF MINNESOTA	
3		
4	In Re:	
5	Bair Hugger Forced Air Warming	
6	Products Liability Litigation	
7		
8	This Document Relates To:	
9	All Actions MDL No. 15-2666 (JNE/FLM)	
10		
11		
12		
13	DEPOSITION OF ALEXANDER A. HANNENBERG	
14	VOLUME I, PAGES 1 - 306	
15	AUGUST 8, 2017	
16		
17		
18	(The following is the deposition of	
19	ALEXANDER A. HANNENBERG, taken pursuant to Notice of	
20	Taking Deposition, via videotape, at the Aloft	
21	Boston Seaport Hotel, 401-403 D Street, Boston,	
22	Massachusetts, commencing at approximately 9:16	
23	o'clock a.m., August 8, 2017.)	
24		
25		
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P 2	D 4
Page 2 1 APPEARANCES: 2 On Behalf of the Plaintiffs: 3 Gabriel Assaad KENNEDY HODGES 4 4409 Montrose Boulevard, Suite 200 Houston, Texas 77006 5 Genevieve M. Zimmerman 6 MESHBESHER & SPENCE, LTD. 1616 Park Avenue 7 Minneapolis, Minnesota 55404 8 On Behalf of Defendants: 9 Deborah Lewis BLACKWELL BURKE P.A. 10 431 South Seventh Street, Suite 2500 Minneapolis, Minnesota 55415 11 ALSO APPEARING: 12 Ronald M. Huber, Video Technician 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 4 1 Board meeting 168 2 11 E-mail string, 3MBH01534469-71 176 3 12 E-mail string, 3MBH01037973-4 185 4 13 Article, Improving Perioperative 5 Temperature Management, by 6 Hannenberg, et al 191 7 14 Article, Resistive-Polymer 8 Versus Forced-Air Warming: 9 Comparable Efficacy in 10 Orthopedic Patients, by 11 Brandt, et al 203 12 15 Article, Intraoperative Hypothermia in Total Hip and Knee 14 Arthroplasty, by Frisch, et al 208 15 16 17 18 WITNESS EXAMINATION BY PAGE 19 Alexander A. Hannenberg Mr. Assaad 5 20 Ms. Lewis 289 21 Mr. Assaad 295 22 23 24 25
1 INDEX 2 EXHIBITS DESCRIPTION PAGE MARKED 3 Ex 1 Materials Considered 9 4 2 Revised Materials Considered 12 5 3 Hannenberg expert report 14 6 4 Hannenberg invoice 45 7 5 Hannenberg curriculum vitae 65 8 6 Medicare.gov Hospital Compare 9 surgical complications - details 126 10 7 Article, Intraoperative Core 11 Temperature Patterns, 12 Transfusion Requirement, and 13 Hospital Duration in Patients 14 Warmed with Forced Air, by 15 Sun, et al 155 16 8 Article, Compliance with Surgical 17 Care Improvement Project for 18 Body Temperature Management 19 (SCIP Inf-10) Is Associated 20 with Improved Clinical Outcomes, 21 by Scott, et al 156 22 9 Min-U-Script of Andrea Kurz's 23 deposition January 12, 2017 166 24 10 Minutes of October 18, 2012 25 Global Patient Warming Advisory	Page 5 PROCEEDINGS (Witness sworn.) ALEXANDER A. HANNENBERG called as a witness, being first duly sworn, was examined and testified as follows: ADVERSE EXAMINATION BY MR. ASSAAD: Q. Please state your name. A. Alexander Hannenberg. Q. You may need to speak up a little bit. A. Okay. Q. My name's Gabriel Assaad and I represent thousands of plaintiffs in the multidistrict litigation. I'm here to ask you numerous questions regarding your expert opinions today. Do you understand that? A. Yes, I do. Q. Okay. Have you had your deposition taken before? A. Yes. Q. Approximately how many times? A. Once. Q. And was that a medical malpractice case? A. It was. Q. And what were the allegations in that case?

	Page 6		Page 8
1	A. The allegations were negligent care by the	1	Q. And how was it you became involved in that
2	anesthesiologist in the postoperative demise of a	2	medical malpractice case?
3	surgical patient.	3	A. I received a phone call from a law firm
4	Q. And were you an expert for the plaintiff or	4	briefly describing the circumstances of the case and
5	the defendant?	5	asking whether I would review the material.
6	A. I was an expert for the defense.	6	Q. Okay. Do you advertise for expert services?
7	Q. Okay. And did you know the doctor that	7	A. No.
8	was	8	Q. Do you know how they got your name?
9	A. No.Q who the lawsuit was filed against?	9	A. I don't.
11	A. No.	11	Q. Okay. Do you know how you got involved in this case?
12	A. No. Q. I'm	12	A. Sort of a similar scena scenario. I
13	Let me go through the instructions real	13	received a a phone call originally asking about one
14	quick. This is your second time doing a deposition	14	of the single cases and asking whether I would review
15	and I may do things differently than what was before,	15	it and offer an opinion.
16	but I'm going to ask you numerous questions. If you	16	Q. Okay. Do you know who contacted you?
17	don't understand my question, please let me know.	17	A. That would have been Greenberg Traurig.
18	Fair?	18	Q. Okay. Do you know who at Greenberg Traurig?
19	A. Yes.	19	A. I can't recall recall, but I'm close.
20	Q. Okay. Please answer in the affirmative,	20	Q. Male or female?
21	"yes" or "no." Shaking your head is something	21	A. Male.
22	difficult for the court reporter to take down and we	22	Q. Evan Holden?
23	need a a complete and accurate transcript. Do you	23	A. Yes.
24	understand?	24	Q. Okay. Do you consult for 3M?
25	A. I do.	25	A. Do I con
	Page 7		Page 9
1	Q. If you do answer the question that I ask,	1	No, only only in this matter, in which
2	I'm going to assume that you understood the question.	2	case I guess I consult for the law firm.
3	Fair?	3	Q. Do you do you know anyone at that
4	A. Yes.	4	works for 3M?
5	Q. And please don't answer any questions unless	5	A. I don't believe so, no.
6	you understand them. Fair? A. Yes.	6 7	Q. Okay.
7 8	Q. Okay. Any time you want to take a break,	8	(Exhibit 1 was marked for identification.)
9	that is fine; I just ask that if there's a pending	9	BY MR. ASSAAD:
10	question, you ask for a break after you answer the	10	Q. Have you ever been
11	question. Fair?	11	Before I talk about Exhibit 1, have you ever
12	A. Understood.	12	been or done any research that was funded by 3M?
13	Q. What was the outcome of that medical	13	A. No.
14	malpractice case, if you know?	14	Q. Okay. Do you know Scott Augustine?
15	A. It was settled.	15	A. I have met him.
16	Q. Okay. Do you know for how much?	16	Q. How long ago?
17	A. I don't.	17	A. More than five years ago.
17	A. I don t.		0 01 W 1 11 0
18	Q. Okay. Where was it located?	18	Q. Okay. You just met him once?
18 19	Q. Okay. Where was it located?A. Hartford, Connecticut.	19	A. I believe so.
18 19 20	Q. Okay. Where was it located?A. Hartford, Connecticut.Q. And do you recall the name of the attorney	19 20	= •
18 19 20 21	Q. Okay. Where was it located?A. Hartford, Connecticut.Q. And do you recall the name of the attorney that hired you?	19 20 21	A. I believe so.Q. Did you have a conversation with him?A. Yes.
18 19 20 21 22	Q. Okay. Where was it located?A. Hartford, Connecticut.Q. And do you recall the name of the attorney that hired you?A. No, I don't.	19 20 21 22	A. I believe so.Q. Did you have a conversation with him?A. Yes.Q. And what was the conversation about?
18 19 20 21 22 23	 Q. Okay. Where was it located? A. Hartford, Connecticut. Q. And do you recall the name of the attorney that hired you? A. No, I don't. Q. How long ago was this? 	19 20 21 22 23	 A. I believe so. Q. Did you have a conversation with him? A. Yes. Q. And what was the conversation about? A. It was about the content of a scientific
18 19 20 21 22	Q. Okay. Where was it located?A. Hartford, Connecticut.Q. And do you recall the name of the attorney that hired you?A. No, I don't.	19 20 21 22	A. I believe so.Q. Did you have a conversation with him?A. Yes.Q. And what was the conversation about?

Page 10 Page 12 of the session to comm -- comment on the -- on -- on incomplete? 1 the session. Exactly his point I don't -- I don't A. Yes, I did. 2 3 3 recall. O. Okav. 4 Q. What was your presentation on? 4 (Exhibit 2 was marked for 5 A. It was about performance measurement 5 identification.) 6 relative to intraoperative temperature management. 6 BY MR. ASSAAD: 7 Q. Okay. And I believe that's on your 7 Q. I'm still on Exhibit 1. With respect to 8 curriculum vitae; correct? 8 Exhibit 1, are all the materials that you considered, do you consider them authoritative? 9 A. Yes. 10 A. What do you mean by "authoritative?" Q. So if I want to know the date of that --10 Q. Reliable. I think you gave one or -- one talk on that; 11 11 A. No. There are -- there are some items in 12 correct? 12 13 A. On -- on that particular performance 13 this report who -- that offers conclusions I'm not 14 measure, yes, I think just one. 14 sure are valid. Q. Yeah. Okay. So that if I look at your CV, Q. Okay. This is just stuff that you've 15 15 that would be about the time you spoke with Dr. Scott considered; correct? 16 16 A. Yes. 17 Augustine. 17 O. And is this --A. Yes. 18 18 Q. And did you ever speak with him again? 19 And what's been marked as Exhibit 2 is a 19 20 20 document that was provided to plaintiffs' counsel this 21 Q. Okay. What's been marked as Exhibit 1 is 21 morning that is titled "Materials Considered;" 22 what you produced, attached to your expert report on 22 correct? 23 June 2nd, 2017. Can you please look at Exhibit 1 and 23 A. Yes. let me know if that's what was attached to your expert Q. Okay. And this is different than Exhibit 1; 24 report on June 2nd, 2017. 25 25 correct? Page 11 Page 13 A. Yes, --A. Yes. 1 O. What is different? 2 Q. Okay. 2 3 A. -- it is. 3 A. There are four -- four or five publications that are on Exhibit 2 that aren't on Exhibit 1. 4 Q. At the time that you submitted your expert 4 report on June 2nd, 2017, were all the -- were all 5 5 Q. And it's my understanding today that you those items listed on Exhibit 1 all the materials you 6 considered those publications at the time of considered in formulating your opinions? 7 submitting your expert report, you just failed to 7 A. No. That's why I submitted a revised 8 include them on the Materials Considered; is that 8 9 document. 9 correct? 10 Q. Okay. So are you saying that Exhibit 1 was 10 A. Yes, sir. incorrect at the time you submitted it --Q. Okay. And the five publications are what? 11 11 A. Let's see, Legg, Wood, Melling, Scott. I 12 A. Yes. 12 think those are the -- I think those are the Q. -- to the --13 13 14 Let me finish my question. 14 additions. 15 A. Uh-huh. 15 Q. Okay. Now when did you create Exhibit No. Q. You have to let me finish my question 16 16 because the court reporter --17 A. Yesterday. 17 Q. Yesterday. Why did you create --18 A. Okay. 18 What made you decide to look at what 19 Q. -- will stop this whole deposition at yell 19 20 20 materials were considered and revise Exhibit 1 to at me. 21 MS. ZIMMERMAN: It's happened before. 21 create Exhibit 2? Q. So at the time of submitting Exhibit 1 on 22 22 A. In -- in thinking about today's session I 23 June 2nd, 2017, the -- regarding the materials you 23 realized that there were items that I had, over an considered for your -- to formulate your expert extended period of time, considered in thinking about 24 24 opinions, are you saying at the time it was this matter that weren't originally listed. 25

Page 14 Page 16 Q. Okay. Is it fair to say that these four 1 Q. Well on Exhibit 2 you only have two expert 1 items, which are Legg, Wood, Melling and Scott, are reports of Dr. Michael J. Stonnington and Dr. William 2 2 3 not cited in your expert report? Jarvis; correct? A. It's easy enough to check if I can see my 4 A. Yes. 5 expert report. 5 Q. Did you review any other expert reports? A. Yes, I'm -- I'm sure I did. 6 (Exhibit 3 was marked for 6 7 7 Q. Which ones? identification.) 8 8 A. Dr. Wenzel and Dr. Kuehn or Keen. A. That is correct, they are not cited. Q. Okay. You've been asked to be an expert in 9 Q. Which one, Kuehn, Keen, or both? A. I don't know. I'd have to look at -- look 10 10 this case: correct? 11 A. Yes. 11 at them to see. 12 Q. And you agree that an expert should be --12 Q. Was it -- was it a University of Minnesota should be objective; correct? 13 13 professor or a person from Toronto? 14 A. Yes. 14 A. I -- I have no idea. Q. Should not be an advocate for either side; Q. Okay. Do you have that with you today? 15 15 A. No, I don't. 16 correct? 16 Q. Okay. What other expert reports? 17 A. Yes. 17 Q. Should be accurate; --A. I can't think of any others. 18 18 A. Yes. Q. What about Borak, does that sound familiar? 19 19 Q. -- correct? 20 20 A. No. 21 So I'm trying to understand what was it 21 O. Holford? 22 yesterday that made you think of these four documents. 22 A. No. 23 A. I was ref -- reflecting on the conversation 23 Q. Mont? that we were going to have today and realized that my 24 A. Mont, per -- perhaps. The name sounds 24 thinking about the matter at hand was informed by 25 fam -- familiar. Whether it's a paper or deposition 25 Page 15 Page 17 or an expert report I'm not sure, but the name -material other than those that were on the Materials Q. Houge? 2 Considered list. 2 3 3 Q. Okay. Did you review any depositions? A. No. 4 A. Did I --4 O. Abraham? 5 Yes, I reviewed depositions. 5 A. It doesn't sound familiar. 6 O. That's not on Exhibit 2; correct? 6 Q. Did you see any videos regarding airflow? 7 A. That is on --7 A. I --Yes, I have. 8 I'm sorry, I -- I -- I stand corrected. The 8 expert reports. 9 9 Q. Okay. And what -- what do you recall? A. I -- I recall -- I recall that the video 10 Q. So you haven't looked at any depositions? 10 A. Have I looked at any dep -depicted a study of airflow in essentially a vacant 11 11 Hon -- honestly, to make a distinction operating room. 12 12 between the depositions and the expert reports, I'm Q. Okay. So there was no individuals in that 13 13 not totally clear on --14 airflow video; correct? 14 Q. You don't know what a deposition is? 15 A. Correct. Or there was a single mannequin --15 A. I know what a deposition is, but when I mannequin. My conclusion from looking at it was that 16 16 think -- think about the opinions of those who have it was a contrived model of an operating room. 17 17 been deposed and those who have submitted expert Q. Okay. How did you obtain that video? 18 18 19 reports, in my mind I'm not clear on in what format I 19 A. I'm not -- I'm not sure whether it was among considered the material from those individuals. 20 20 the materials that was e-mailed to me along with many 21 Q. So sitting here today you don't know what 21 other clinicians, or whether it was something that was 22 depositions you reviewed, if any. 22 provided by -- by counsel. 23 A. I believe I have reviewed depositions. 23 Q. Did you consider that in formulating your Which ones, and which ones I relied on the expert 24 24 opinions? reports, I'm not able to say. 25 A. Only to the extent I just -- I just stated,

Page 18 Page 20 that I didn't think that it offered any credible A. I don't know. 1 evidence about operating room airflow in a vacant 2 2 Q. You don't know. 3 operating room without any live personnel or activity A. I don't -- I -- I don't know. As I or equipment. said, the -- my impression -- my impressions are 5 Q. But you considered it; correct? 5 related to the content, not so much the format; that 6 A. Yes. 6 is to say, if an individual is deposed and offered an 7 expert opinion, whether I reviewed their expert Q. Why isn't it on Exhibit 2? 8 A. It was an omission. opinion or the deposition is hazy in my mind as I sit Q. Any other omissions in Exhibit 2 that you here today. 10 can think of? Q. Let's -- maybe we can make it sim -- be 10 simplified. Did you rely on anything you read in the 11 A. Not -- not that I can think of. 11 depositions in formulating your opinions? 12 Q. Okay. Did you look at Hughes' report? 12 13 A. I don't believe so. 13 A. That -- that is possible. 14 Q. Lampotang? 14 Q. Well I don't want "possible," I want to know A. No. 15 15 one way or the other. O. Ulatowski? A. Okay. I am unable to tell -- to tell you 16 16 17 what I was --17 A. No. What I've been saying is that I've reviewed 18 O. Settles? 18 materials in various -- in various formats from A. No. 19 19 various sources. My -- whatever opinion I 20 Q. Okay. So my understanding is the only 20 21 expert reports you've seen are Dr. Wenzel, Dr. Kuehn, 21 hold -- hold today is the result of the sum of that 22 22 information, and I have not really made an effort to 23 A. That is the best of my recollection. 23 connect an opinion with whether it is directly derived O. On the defense side: correct? from a particular document. 24 24 25 A. I don't know whether those are on the 25 O. So if I understand --Page 19 Page 21 defense -- defense side, but those are the reports. 1 A. My --Q. And as well as the two reports listed in 2 2 Q. -- you today, that with respect to your 3 Exhibit 2; correct? 3 opinions, you don't know all the materials that you're 4 A. Yes. 4 using to rely upon in formulating those opinions; is 5 Q. Okay. Let's talk about depositions. Have 5 that correct? MS. LEWIS: Object to the form. 6 6 you --7 You know what a deposition transcript looks A. I am relying on a variety of materials and 7 my clinical training and experience to form my like; correct? 8 8 opinion. 9 A. Yes. 9 10 Q. I mean you've been deposed before and I'm 10 Q. I understand that. But besides what's been sure you reviewed your deposition transcript; correct? marked as Exhibit 2 and the three expert reports that 11 11 we've mentioned, Wenzel, Kuehn and Mont, as well as 12 A. Correct. 12 the Abraham video, sitting here today you cannot Q. There's someone asking questions and there's 13 13 14 the deponent answering the questions; correct? 14 testify as to what other documents or materials you A. Yes. 15 used and relied upon to formulate your opinions; is 15 Q. Okay. I just want to be clear that you 16 16 that correct? understand what it is before I ask you the next 17 A. That's correct. 17 question. So you're clear you understand what a MS. LEWIS: Objection, form. 18 18 19 deposition is. 19 MR. ASSAAD: Basis. 20 A. Yes. 20 MS. LEWIS: Misstating the -- his testimony. 21 Q. Okay. Do you recall reading any such 21 He didn't say whether it was Abraham's video or whose 22 documents in the past, you know, in -- in -- in this 22 video, he just said video. 23 23 MR. ASSAAD: Okay. You may answer. A. Yeah. I clar -- was about to say the same 24 A. Yes. 24 25 25 Q. Which -- which ones? thing.

	Page 22		Page 24
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Let me ask the question again then, get it nice and clean. My understanding is what's been marked as Exhibit 2, the three expert reports of Wenzel, Kuehn and Mont, and a video that you don't know who created it, is all that you relied upon or you remember that you relied upon in formulating your opinions today. A. No. Q. What else is there? A. I have I have been the recipient of countless electronic mail communications on on this subject, I have seen coverage of it in the trade trade press, I have had lec lectures and abstracts that I have that I have seen. I cannot recall the de details of any one of those. But in synthesizing what I think about this issue today, all of those, in addition to my own clinical experience, play a role in formulating the materials. So I think	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Correct. Q. All right. What I have is Exhibit 2; correct? A. Yes. Q. Okay. This electronic mail, is there anything in the electronic mail that you used or you relied upon in formulating your opinions? A. The I am thinking primar primarily of the mass e-mails from stopsurgicalinfections.org and similar related organizations. Q. Okay. With respect to any e-mails with counsel, any e-mails from counsel that that that provided information that you relied upon? MS. LEWIS: Objection to the form of the question. It's asking for communication material, and you don't have to answer questions about any communications that you've had with counsel. Q. Is there any in
20 21 22 23 24 25	that inevitably, given the multiplicity and variety and the span of time over which this information has come to me, I think that there are going to be items that, almost perhaps even subconsciously, factor into my thinking on the sub on the subject. Q. Well unfortunately I'm not a mind reader.	20 21 22 23 24 25	MR. ASSAAD: Actually, you're actually wrong. I'm allowed to If he's relying on any facts that you told him, I don't if it's in a communication, I have every right to know about it. MS. LEWIS: If he if he knew about that
	Page 23		Page 25
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	You understand that; right? A. I I assume I assume that that's so. Q. Okay. Do you understand we're here I'm here to take your deposition and to understand your opinions. You understand that; correct? A. Yes. Q. And I want to understand the methodology in formulating your opinions. You understand that; correct? A. Yes. Q. And understanding also what documents and information you used in formulating opinions that you relied upon. You understand that; correct? A. Yes. Q. And sitting here today it's my understanding, based on your testimony, that you do not have that information for me today.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	fact already, he is not getting that fact from counsel. MR. ASSAAD: Okay. Stop coaching the witness, Ms. Lewis. MS. LEWIS: That's I'm I'm MR. ASSAAD: You are coaching the witness. MS. LEWIS: No, I am not coaching the witness. MS. ASSAAD: If you want him to step out, we could have him step out, we could have a legal debate of whether or not it's confidential, but I don't want you to coach MS. LEWIS: He's not going to answer questions on communications. MR. ASSAAD: I'm not asking about any communications. Q. Is there any facts the defense gave you that you're relying upon in formulating your opinions?
19 20 21 22 23	MS. LEWIS: Objection, form. A. Is that was Was there a question? Q. You don't have all the documents or all the materials you are going to use or you relied upon in	19 20 21 22 23	 A. Any facts? Q. Yes. A. Do you distinguish facts from materials? Q. Any materials they gave you that you're relying upon, anything that they've given you that

	Page 26		Page 28
1	counsel.	1	A. Yes.
2	Q. Okay. So Jarvis and Stonnington.	2	Q and infection, surgical-site infection?
3	A. The video that we discussed was provided to	3	A. Yes.
4	me by counsel.	4	Q. Do you consider her an expert in the field?
5	Q. Anything else?	5	A. I consider her an expert in the field.
6	A. A test testing report on filters.	6	Q. Do you consider Dr. Sessler an expert in the
7	Q. Is that listed in Exhibit 2?	7	field?
8	A. No, it is not.	8	A. Yes.
9	Q. Why not?	9	Q. Have they done more research on normothermia
10	A. Because I hadn't thought of it at the time I	10	than you have?
11	created Exhibit Exhibit 2.	11	A. Yes.
12	Q. As of yesterday.	12	Q. In fact, you have done no research on
13	A. Correct.	13	normothermia; have you?
14	Q. Okay. What else?	14	A. Correct, except to the extent that I have to
15 16	A. I can't say.Q. When did you receive the depositions?	15	make decisions about how I manage the temperature of the patients I anesthetize.
17	A. In the last several months.	16 17	Q. Let me ask my question again. And this is
18	Q. Did you receive the deposition of Al Van	18	going to go a lot quicker if you answer my question.
19	Duren?	19	Okay?
20	A. I'm sorry?	20	I understand you're a treating physician. I
21	Q. Al Van Duren. Do you know who he is?	21	understand what anesthesiologists do. We don't need
22	A. Al Van Al Van Duren. Al Van Duren, that	22	to go there. My question is you, Dr. Hannenberg, have
23	name sounds that sounds familiar. And again,	23	not done any research on normothermia; correct?
24	whether the name sounds familiar because of seeing a	24	A. Well are you are you talking about
25	paper of his, whether he was referenced in the expert	25	laboratory re research, clinical studies, or are
			•
	Page 27		Page 29
1	reports that I did did read read, I don't know,	1	you talking about re research in the sense of
2	reports that I did did read read, I don't know, but the name sounds sounds familiar.	2	you talking about re research in the sense of evaluating the available science in order to make a
2 3	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes"	2 3	you talking about re research in the sense of evaluating the available science in order to make a clinical decision?
2 3 4	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know."	2 3 4	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm
2 3 4 5	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know.	2 3 4 5	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you
2 3 4 5 6	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr.	2 3 4 5 6	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies?
2 3 4 5 6 7	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel?	2 3 4 5 6 7	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No.
2 3 4 5 6 7 8	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No.	2 3 4 5 6 7 8	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research?
2 3 4 5 6 7 8 9	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn?	2 3 4 5 6 7 8 9	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No.
2 3 4 5 6 7 8 9 10	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports.	2 3 4 5 6 7 8 9 10	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct?
2 3 4 5 6 7 8 9 10	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont?	2 3 4 5 6 7 8 9 10	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct.
2 3 4 5 6 7 8 9 10 11 12	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know.	2 3 4 5 6 7 8 9 10 11 12	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be
2 3 4 5 6 7 8 9 10 11 12 13	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any	2 3 4 5 6 7 8 9 10 11 12 13	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct?
2 3 4 5 6 7 8 9 10 11 12 13 14	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter	2 3 4 5 6 7 8 9 10 11 12 13 14	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything	2 3 4 5 6 7 8 9 10 11 12 13 14 15	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today?	2 3 4 5 6 7 8 9 10 11 12 13 14	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz. Q. Kurz?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct. Q. Or any other people out in in who have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz. Q. Kurz? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct. Q. Or any other people out in in who have published papers on normothermia; correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz. Q. Kurz? A. Yes. Q. Who is Dr. Kurz?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct. Q. Or any other people out in in who have published papers on normothermia; correct? A. Correct. O. Correct. Other than an edit an editorial
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz. Q. Kurz? A. Yes. Q. Who is Dr. Kurz? A. Dr. Andrea Kurz is a scientist and the author of an important paper in the area of surgical normothermia.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct. Q. Or any other people out in in who have published papers on normothermia; correct? A. Correct. Other than an edit an editorial on the subject of surgical normothermia, I have not published on this subject. Q. And you read the paper of Dr. Sessler;
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz. Q. Kurz? A. Yes. Q. Who is Dr. Kurz? A. Dr. Andrea Kurz is a scientist and the author of an important paper in the area of surgical normothermia. Q. Are you talking about the 1996 paper on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct. Q. Or any other people out in in who have published papers on normothermia; correct? A. Correct. Other than an edit an editorial on the subject of surgical normothermia, I have not published on this subject. Q. And you read the paper of Dr. Sessler; correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	reports that I did did read read, I don't know, but the name sounds sounds familiar. Q. Did you read his deposition? Simple "yes" or "no" or "I don't know." A. I don't know. Q. Okay. Did you read the deposition of Dr. Wenzel? A. No. Q. Did you read the deposition of Dr. Kuehn? A. No. I believe I read their expert reports. Q. Did you read the deposition of Dr. Mont? A. I don't know. Q. Okay. Can you tell me any dep any deposition that you've read from what subject matter it was dealing with, if it was a doctor, anything today? A. I read I read parts of Dr. Kurz. Q. Kurz? A. Yes. Q. Who is Dr. Kurz? A. Dr. Andrea Kurz is a scientist and the author of an important paper in the area of surgical normothermia.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	you talking about re research in the sense of evaluating the available science in order to make a clinical decision? Q. I'm Let's talk about clinical studies. Have you done any clinical studies? A. No. Q. Have you done any laboratory research? A. No. Q. Okay. You've read papers; correct? A. Correct. Q. Okay. And some of the papers we'll be talking about today; correct? A. Yes. Q. But you haven't done what Dr. Kurz or Dr. Sessler has done; correct? A. Correct. Q. Or any other people out in in who have published papers on normothermia; correct? A. Correct. Other than an edit an editorial on the subject of surgical normothermia, I have not published on this subject. Q. And you read the paper of Dr. Sessler;

Page 30 Page 32 Q. And how do you know Dr. Sessler? Q. Well it's not listed here, so if it's not 1 1 A. Dr. Sessler and I served on a committee that listed in Exhibit 2, have you -- did you look at it or 2 2 developed a performance measure on perioperative 3 3 consider it in formulating your opinion for your normothermia. expert report? Q. Okay. So we're going to get to that, but I 5 5 A. No. 6 just want to understand what is the universe of 6 Q. What about the Zink paper? information you used to formulate your opinions, and 7 A. I --7 my understanding right now is Exhibit 2, Dr. Wenzel, 8 No, it did not factor into my expert report. Dr. Kuehn and Dr. Mont's expert reports, a video of 9 Q. What about the Moretti paper? A. I probably have seen -- have seen it, but I 10 airflow, a testing report regarding filtration, and 10 parts of Dr. Kurz's deposition; correct? would not say that it is part of the content of my 11 11 MS. LEWIS: Object to the form of the 12 12 expert report. 13 question. 13 Q. What about the Sun paper. Do you know what 14 A. Those materials did serve as the basis for 14 the Sun paper is? A. No. 15 my opinions, --15 Q. Anything else? 16 Q. Okay. Sun with -- with Andrea Kurz, do you 16 A. -- but I think I've already out -- outlined know what paper that is? 17 17 the fact that I have seen trade press publications, --18 A. No. 18 Q. Which ones? 19 Q. Okay. What about the Sessler/Olmstead/ 19 Kuplinger paper, do you know what paper that is? 20 A. -- an e-mail --20 21 I -- I cannot -- I cannot cite -- cite them. 21 A. No. 22 I haven't kept a record of those publications that 22 Q. Okay. What about Belani, does that name 23 I've seen over the course of a decade. 23 sound familiar? O. But did you use them and look at them in 24 A. Yes, it does. 24 25 creating Exhibit 3, your expert report? 25 Q. Did you review that paper? Page 31 Page 33 1 A. With respect to what is in my expert report, 1 A. I prob -- I probably did. my expert report has the citations of the materials Q. Did you review that paper in formulating 2 that I point to in the text of the expert report. So 3 your opinions in Exhibit 3? the content of the expert rep -- report is one -- is 4 A. No. one thing, the full range of my opinions on the sub --5 5 Q. What about the Reed paper, "Evaluation of on the subject is something else. Intake Filtration: Internal Microbial Buildup in 6 Q. Okay. But with respect to all the materials 7 Airborne Contamination Emissions," did you review that 7 paper in formulating your opinions in Exhibit 3? you used in formulating the opinions in your 8 Exhibit -- in Exhibit 3, your -- your expert report, 9 9 A. No. 10 we've discussed those today; correct? 10 Q. You added Legg, Cannon, Hamer, "Do forced A. I'm -- I'm sorry. Say again. air patient-warming devices disrupt unidirectional 11 11 Q. With respect to Exhibit 3, -downward airflow?" Did you look at any other Legg 12 12 A. Yes. paper in formulating your opinions on Exhibit 3? 13 13 14 Q. -- we have discussed all the materials that 14 A. No. you have reviewed or looked at or considered in 15 Q. Okay. Did you find this Legg paper on your 15 formulating your opinions that are in Exhibit 3, your own or did -- was that provided to you by counsel? 16 16 expert report; correct? A. That was, I believe, provided to me -- to me 17 17 A. Yes. 18 18 by stopsurgicalinfections.org. 19 Q. Okay. I understand you have education, 19 Q. Okay. Did you review the Desari paper, training and experience, but I'm talking about 20 "Effect of forced-air warming on the performance of 20 operating theatre laminar flow ventilation?" 21 documents that you've looked at or considered. You 21 22 understand that; correct? 22 A. Yes, I think I did. 23 A. Yes. 23 Q. In formulating your opinions in -- in Q. Okay. Did you look at the Huang paper? 24 24 Exhibit 3? 25 A. If you can show it to me I can --25 A. Well in -- in Ex -- in Exhibit 3 I address

Page 34 Page 36 the proposition that forced-air warming devices 1 A. I believe I did. Q. Okay. But you didn't put that in something 2 disrupt laminar -- laminar flow. There are multiple 2 3 that you considered in your ex -- for your expert sources of that proposition; I believe that is one -is one of them. So that I was -- did not refer report; correct? specifically to that paper but to the -- the opinion 5 A. Correct. 6 about forced-air warming and laminar flow --6 Q. Let -- let me ask you a question. Exhibit 2 7 Q. Does the Desari paper --7 is not in alphabetical order; correct? 8 A. -- more generally. 8 A. Correct. Q. Does the Desari paper have to be 9 Q. So why would you stick four more items in 10 the middle -- or not even in the middle, like randomly 10 included -into Exhibit 2 and just -- instead of putting it at 11 MS. LEWIS: Wait. Did you finish your 11 12 answer? 12 the end to make it easy for everyone to know what you 13 THE WITNESS: Yes. 13 added to your -- your Materials Considered? 14 Q. Does the Desari paper have to be included in 14 A. That's where the curs -- cursor was -- was Exhibit 2 now? Would you include it? 15 15 when I pulled the citation. A. I -- I -- I don't -- I don't see why not. Q. Yeah. But then you -- you went from Melling 16 16 Q. Okay. So it should be another document -- a to Scott and you jumped over Leitjens, so it's not 17 17 document that you considered in formulating your like you continued writing four -- four directly in a 18 18 opinions of Exhibit 3? 19 19 row. A. Yes. 20 20 A. Well --21 Q. Okay. So do you recall the paper written by 21 Q. I mean you put Legg, Wood, then you 22 Sessler, "Forced-air warming does not worsen air 22 skipped -- then you -- then you put your cursor again 23 quality in laminar flow operating rooms?" Did you 23 and you went to Melling and you moved your cursor again and went to Scott. Why would you do that? ever read that paper? 24 24 25 A. I recall -- I recall the title. Whether 25 A. In order to look at what was already in Page 35 Page 37 the -- in the report, so scroll -- scrolling up and I've read it or not, I don't know. Q. Okay. So you didn't -- you didn't consider down through the document. 2 2 3 Q. So they're -- they're in order of what you 3 that paper in formulating your opinions in Exhibit 3; 4 correct? 4 reviewed? This is the order that it's in your -- in 5 A. Correct. 5 your report? Q. Okay. Do you recall reading the paper by 6 A. No. I had the original re -- report 6 Belani, "Patient warming excess heat: The effects on 7 submitted previ -- previously. I was reviewing it on 7 orthopedic operating room ventilation performance?" 8 the computer screen, addressing omissions, and where 9 A. No. 9 the cursor -- cursor was -- it was not --10 10 Q. Do you know who Dr. Belani is? Had the original report been in alphabetical order, I probably would have inserted the new items in 11 11 alphabetical order, but it was -- but it wasn't. I 12 Q. He was -- he was the Chair of Anesthesiology 12 at the University of Minnesota. was reviewing the pri -- previously submitted report. 13 13 A. No. 14 Q. So you -- are --14 15 Q. Did you read the Stocks paper on particles? 15 It's my understanding that -- that Materials A. Did I read the Stocks paper? I don't Considered is -- kind of follows the same format as 16 16 how it's cited in your report; correct? 17 17 recall. A. It is cited in my report in relation to the 18 Q. What about the Darouiche paper on particles 18 19 and bacterial load? 19 commentary in the text of the report. 20 A. No. 20 Q. I -- I understand. But my question is: If 21 Q. I understand that on Exhibit 2 you looked at 21 you look at page eight of your expert report, which is Exhibit 3, and you look at Exhibit 2, which is the 22 the letter to the editor -- well strike that. 22 Did you read the Albrecht paper, "Forced air 23 23 documents called Materials Considered that you warming: A source of airborne contamination in the provided today, is the order that is on Exhibit 2 24 24 operating room?" 25 similar to what is in Exhibit 3, you just added where

Page 38 Page 40 those documents would go in relation to your report? 1 Q. Where in Exhibit 3, what part of your report 1 A. I'm not -- I'm not sure I understand what 2 2 of Exhibit 3? 3 3 you're asking. A. Well I guess I would say that my opinion Q. For -- for example, you added Legg and Wood 4 about the benefits and value of normothermia are in after McGovern. Okay? And McGovern is number 16 on 5 part informed by the content of -- of -- of Scott. 6 Exhibit 3: correct? 6 Q. Did you review the article Kimberger --7 A. Yes, it is. 7 written by Kimberger, Held, Stadelmann, Mayer, 8 Q. Is it my understanding that Legg and Wood 8 Hunkeler, Sessler, Kurz titled "Resistive polymer versus forced-air warming: comparable heat transfer 9 are -- are around --10 10 You're citing them for the same proposition and core rewarming rates in volunteers?" or around -- same subject area as where McGovern is in 11 11 A. No. 12 your expert report? 12 Q. Okay. Do you take the similar position as 13 A. No. 13 Dr. Sessler in which you don't care how a patient is 14 Q. Okay. So why does --14 warmed as long as the patient is warmed? Why are you skipping around on Exhibit 2 in A. I don't know that that's Dr. Sessler's 15 15 where you -- you added these new citations? 16 opinion, but I think --16 A. Exhibit 2 does not have any particular 17 No. I -- I think I would dis -- disagree --17 sequence after the content of the bibliography from 18 18 disagree with that, because, you know, part of the decision about how to -- how to warm the patient is the expert report appears. 19 19 Q. Well you put Legg and Wood between McGovern 20 20 two parts, it's efficacy and it's -- and it's safety. and Memarzadeh on Exhibit 2. You can look at Exhibit 21 21 It's more than -- it's cost, it's cost, it's -- it's 22 22 convenience, so there are multiple factors in determining the choice of warming technology. 23 A. I -- I --23 Q. Okay. Q. Okay. So you disagree with Dr. Sessler when 24 24 25 A. I -- I know. 25 he says that publicly at many 3M conferences. Page 39 Page 41 Q. Why did you put those there? MS. LEWIS: Object to the form. 1 1 A. As I -- as I said, the cursor on the screen A. I don't know that he says that -- that he 2 2 was there when I had the references and -- and added 3 says that publicly, but I've just told you what my 3 4 them. The cursor on the screen was in a different 4 opinion about patient warming is. 5 place when I added the other references. 5 Q. Have you ever seen Dr. Sessler lecture on Q. Why did you move the cursor on the screen 6 maintaining normothermia? 6 7 when you were editing the document? 7 A. I -- I am sure I have. I can't recall when 8 A. Because I was look -- because I was looking 8 and where. at the pre-existing content of the doc -- of the 9 Q. So sitting here today, you don't remember. A. Correct. 10 document. 10 O. Of Exhibit 2 or Exhibit 3? 11 Q. Okay. Have you --11 When was the last time you took a CLE on 12 A. Exhibit 2. 12 13 Q. So why did Melling go after patient warming? 13 maintaining -- or CME on maintaining normothermia, if 14 A. Because I was on that point in the page when 14 I paused to pull the reference for Melling and add it 15 15 A. I can't -- I can't recall taking a CME to the document. specifically on that subject. 16 16 Q. When is the last time you've attended any 17 Q. And why is Scott --17 Why did you add Scott into your report, into lecture -- CME, talk, anything -- on maintaining 18 18 19 your Materials Considered? 19 normothermia? 20 A. Because it influenced my opinion and it had 20 A. I don't -- I don't -- I don't recall. 21 previously been omitted. 21 Q. When was the last time you went to the ASA Q. Okay. Where would --22 22 conference? 23 Where did it influence your opinion in 23 A. Last October. Q. Okay. With respect to Exhibit 2, is this 24 Exhibit 3? 24 25 25 something that you drafted? A. It influenced my --

	Page 42		Page 44
1	A. Yes.	1	A. No.
2	Q. Okay. Did you ever review the deposition of	2	Q. Do you know who Mike Buck is?
3	Dr. Sessler?	3	A. No.
4	A. I have reviewed a deposition of Dr. Sessler.	4	Q. What about Dan Koenigshofer?
5	Q. Okay. Why wasn't that included in Exhibit	5	A. Other than the name sounding familiar, no.
6	2?	6	Q. What about
7	A. Because I can't identi identify what	7	Did you review the deposition of Dr. Jarvis?
8	content of that deposition informed my opinion.	8	A. I don't believe I read his deposition. I
9	Q. Exhibit 2 says "Materials Considered;"	9	Q. Have you read the deposition of Dr.
10	correct?	10	Stonnington?
11	A. Yes.	11	A. No. I read I read their expert reports.
12	Q. Correct?	12	Q. I understand that. I I know that's on
13	A. Yes.	13	Exhibit 2.
14	Q. It doesn't say "Materials Relied Upon;"	14	A. Yes.
15	correct?	15	Q. I'm asking about depositions.
16	A. Correct.	16	A. Yes.
17	Q. Okay. So now we have Dr. Sessler's	17	Q. Have you reviewed any medical records in
18	deposition. When did you review his deposition?	18	this case?
19	A. I don't recall.	19	A. In this case. In this case.
20	Q. This year?	20	Q. Yes.
21	A. Most probably.	21	A. I reviewed medical records of Walton and
22	Q. Okay. Have you reviewed the deposition of	22	Johnson.
23	Gary Maharaj?	23	Q. Okay. But you haven't reviewed any of
24	A. No.	24	the the upcoming trials and the medical records of
25	Q. Have you reviewed the deposition of	25	those cases.
	Q. There you reviewed the deposition of	23	mose cases.
	Page 43		Page 45
1	ever	4	
2		1	A. Correct.
2	Have you ever reviewed the deposition of	2	Q. Okay. You do understand that Walton and
3	Teri Sides?	2 3	Q. Okay. You do understand that Walton and Johnson are part of this case.
3 4	Teri Sides? A. No.	2 3 4	Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes.
3 4 5	Teri Sides? A. No. Q. Have you ever reviewed the deposition of	2 3	Q. Okay. You do understand that Walton and Johnson are part of this case.A. Yes.Q. Okay. So when I refer to "this case," I'm
3 4 5 6	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda?	2 3 4 5 6	 Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total.
3 4 5 6 7	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda? A. No.	2 3 4 5 6 7	 Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total. You understand that; correct?
3 4 5 6 7 8	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda? A. No. Q. Have you ever reviewed the deposition of	2 3 4 5 6 7 8	 Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total. You understand that; correct? A. Yes.
3 4 5 6 7 8 9	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda? A. No. Q. Have you ever reviewed the deposition of Gary Hansen?	2 3 4 5 6 7 8 9	Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total. You understand that; correct? A. Yes. Q. Okay.
3 4 5 6 7 8 9 10	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda? A. No. Q. Have you ever reviewed the deposition of Gary Hansen? A. No, I don't think so.	2 3 4 5 6 7 8 9 10	Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total. You understand that; correct? A. Yes. Q. Okay. (Exhibit 4 was marked for
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda? A. No. Q. Have you ever reviewed the deposition of Gary Hansen? A. No, I don't think so. Q. Have you ever reviewed the deposition of Troy Bergstrom? A. No. Q. Have you ever reviewed the deposition of Gary Maharaj? A. I don't recall. Q. Okay. Have you ever reviewed the deposition of Dave Westlin? A. No. Q. Have you ever reviewed the deposition of Dr. Elghabashi? A. No. Q. Do you know who Dr. Elghabashi is? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total. You understand that; correct? A. Yes. Q. Okay. (Exhibit 4 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 4 is a is a document the only document, the one and only produced by defendant in response to a subpoena to you. Do you recall Do you see this document? A. Yes, I do. Q. Okay. You Do you recall receiving a subpoena in this case? A. Yes. Q. Okay. Did you review the subpoena? A. Yes. The subpoena subpoena relative to
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Teri Sides? A. No. Q. Have you ever reviewed the deposition of Karl Zgoda? A. No. Q. Have you ever reviewed the deposition of Gary Hansen? A. No, I don't think so. Q. Have you ever reviewed the deposition of Troy Bergstrom? A. No. Q. Have you ever reviewed the deposition of Gary Maharaj? A. I don't recall. Q. Okay. Have you ever reviewed the deposition of Dave Westlin? A. No. Q. Have you ever reviewed the deposition of Dr. Elghabashi? A. No. Q. Do you know who Dr. Elghabashi is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. You do understand that Walton and Johnson are part of this case. A. Yes. Q. Okay. So when I refer to "this case," I'm talking about the Bair Hugger litigation in total. You understand that; correct? A. Yes. Q. Okay. (Exhibit 4 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 4 is a is a document the only document, the one and only produced by defendant in response to a subpoena to you. Do you recall Do you see this document? A. Yes, I do. Q. Okay. You Do you recall receiving a subpoena in this case? A. Yes. Q. Okay. Did you review the subpoena?

	Page 46		Page 48
1	Q. Yes.	1	I don't understand that question.
2	A. Yes.	2	Q. I mean did he give you
3	Q. Have you got another subpoena in this case	3	Did he coach you on how to become an expert
4	not related to this deposition?	4	witness and how to answer questions, defense counsel?
5	A. Not that not that I'm aware of.	5	A. Yes.
6	Q. Okay.	6	Q. Okay. What did he tell you?
7	A. I know that this document we're looking at,	7	A. To ans answer truthfully and completely
8	Exhibit 4, was requested. Whether that was requested	8	and to be sure I understood the question.
9	under subpoena or not, I don't know.	9	Q. Okay. I mean as a doctor you take a lot of
10	Q. Did you	10	notes, don't you, in your practice?
11	Is this the only document that you provided	11	A. Yes.
12	to defendant in response to the subpoena, defense	12	Q. Okay. Because that's how you can keep track
13	counsel?	13	of what you did and and what was done in the past;
14	A. What I produced	14	correct?
15	So I've produced a curriculum vitae. What	15	A. Correct.
16	is rela related to the subpoena or not, I don't	16	Q. Okay. And not only do you take notes, but
17	know. I produced what counsel asked me to produce.	17	every other doctor takes notes and nurses take notes.
18	Q. So you did not go through the subpoena and	18	It's just general practice to take notes; correct?
19	determine whether or not you had documents responsive	19	A. Correct.
20	to the subpoena, you just produced what defense	20	Q. And there's actually a section that says
21	counsel told you to produce?	21	"Progress Notes" in most medical records; correct?
22	A. We looked at we looked at the subpoena	22	A. Correct.
23	recently for the purpose of confirming that we had	23	Q. But for acting as an expert, you don't take
24	produced what was required by the subpoena.	24	notes.
25	Q. Did you create any notes?	25	A. Correct.
	Page 47		Do 22 40
			Page 49
1	A. No.	1	Q. Okay. Is there something you're trying to
2	Q. You took no notes the entire time	2	Q. Okay. Is there something you're trying to hide?
2 3	Q. You took no notes the entire timeA. Correct.	2 3	Q. Okay. Is there something you're trying to hide? A. No.
2 3 4	Q. You took no notes the entire timeA. Correct.Q in this case at all.	2 3 4	Q. Okay. Is there something you're trying to hide? A. No. Q. Okay. Then why not take notes?
2 3 4 5	Q. You took no notes the entire timeA. Correct.Q in this case at all.A. Correct.	2 3 4 5	 Q. Okay. Is there something you're trying to hide? A. No. Q. Okay. Then why not take notes? A. Because I was advised by counsel not to.
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	Page 50		Page 52
1	Q. Okay. Note-taking is a good thing; isn't	1	understand that; correct?
2	it?	2	A. Yes.
3	A. I have been told that in this context it is	3	Q. And that's even required under the the
4	not it is not.	4	Federal Rules of Civil Procedure, Rule 26, that you
5	Q. By defense attorneys?	5	need to identify the facts and basis for all your
6	A. Correct.	6	opinions. Do you understand that?
7	Q. Okay. I mean you teach your residents to	7	MS. LEWIS: Objection to form.
8	take notes; correct?	8	A. I know nothing about Federal Rule 26.
9 10	A. I don't teach I don't teach residents now, but when I did when I did, yes.	10	Q. Were you were you told that I that I'm allowed to understand all the facts and basis of
11	Q. Yeah. I mean it would be almost malpractice	11	of of your opinions?
12	if you didn't take notes; correct?	12	MS. LEWIS: I object to your discussing any
13	A. I'm not sure what medical practice and	13	communications that you've had with defense counsel.
14	medical malpractice has to has to do with conduct	14	Q. Was it your understanding when you wrote the
15	as an expert wit expert witness, but it is	15	report, Exhibit 3, that you must convey all your
16	certainly standard practice among physicians to make	16	opinions and the facts and basis behind those
17	notes.	17	opinions?
18	Q. I mean you you understand that there's	18	A. I think I've stated in Exhibit Exhibit 3
19	almost 3,000 people that have filed cases in this	19	that it is not a fin final or necessarily a
20	litigation. Are you aware of that?	20	comprehensive re report.
21	A. I'm aware of that.	21	Q. Where did you get the idea that you didn't
22 23	Q. Okay. That's 3,000 people that had severe	22 23	have to have a final report by June 2nd, 2017?
24	periprosthetic joint infections. Do you understand that?	24	A. If I can quote Q. I I know your report. I'm asking where
25	MS. LEWIS: Object to the form.	25	did you get the idea or who told you that your report
	MB. 22 Wild. Coject to the form		and you get the fact of who told you that your report
	Page 51		Page 53
1	A. If you say if you say so.	1	didn't have to be filed by June 2nd, 2017?
2	Q. I mean	2	A. The report was was filed. It
3	A. I know I know about the details of two of	3	doesn't it doesn't mean that I necess
4	the cases.	4	necessarily included every thought or i idea
5	Q. You know what a periprosthetic joint	5	about about the case. It doesn't mean that it is
6	infection is. A. Yes, I do.	6 7	an exhaustive recitation of all my opinions. Q. So your report's incomplete?
8	Q. It's a serious infection; correct?	8	A. I wouldn't characterize it as as
9	A. Yes.	9	incomplete. It is not an exhaustive recitation of all
10	Q. Okay. Some people have	10	my opinions.
11	Some people die. You understand that;	11	Q. You know what a deadline is; correct?
12	right?	12	A. Yes.
13	A. Yes.	13	Q. Okay. The deadline was June 2nd, 2017. You
14	Q. Some people have amputations. You	14	understood that; correct?
15	understand that.	15	A. Yes.
16	A. Yes.	16	Q. Okay. So why isn't your why isn't all
17	Q. And most if not all, probably 90 at least	17	your opinions in your report?
18 19	90 percent have additional surgery. You're aware of that; right?	18 19	A. Well I may have thought about something about this report on June 3rd.
20	A. I'm not aware of that statistic.	20	Q. Well has something come up in the science or
21	Q. So you understand that this is a serious	21	research of normothermia between June 3rd
22	case.	22	maintaining normothermia between June 3rd and today
23	A. I understand this is a serious case.	23	that you're aware of?
24	Q. And I have the right to understand all your		
		24	A. Has something
25	opinions and the basis for your opinions. You	25	Are you referring to a published

	Page 54		Page 56
1 2	Q. Publication.A study?	1 2	Q. Okay. And it was an internal 3M document? A. I don't I don't know whether it was or
3	Not in that not in that interval. But	3	was or not.
5	that's a different matter from my opinion taking taking shape or another perspective on a question I	4 5	Q. You don't know? A. I don't know.
6	find	6	Q. Do you have it here with you today?
7	Q. Your opinion could change; is that what	7	A. No, I don't.
8	you're saying?	8	Q. Did you bring anything with you today?
9	A my opinion my	9	A. No.
10	MS. LEWIS: Gabe, would you let him	10	Q. Do you think if you brought your documents
11	finish	11	you would be able you brought your documents you
12	Q. Your opinion could change?	12	would be able to answer these questions?
13	MS. LEWIS: before you start your next	13	A. If I looked at that particular document, it
14	question?	14	might tell me whether it was an internal 3M document
15	Q. Your opinion can change?	15	or not, but I don't know that for sure.
16	A. My opinion can change.	16	Q. Have you ever done a case study as a doctor?
17	Q. Okay. So if that's the case, I might be	17	A. I'm not sure what you mean by "a case
18	able to convince you that maintaining normothermia is	18	study."
19	junk science today; correct?	19	Q. Like where you talk about a patient in front
20 21	A. I doubt it.	20	of a bunch of students.
21 22	Q. Pretty good.	21 22	A. Yes.
23	MR. ASSAAD: Let's take a break. THE REPORTER: Off the record, please.	23	Q. Okay. Do you go into the case study and discuss with your students about the case without any
24	(Recess taken.)	24	of the medical records?
25	BY MR. ASSAAD:	25	A. Seldom.
23	DI WIK. ABBAMD.	23	11. Seldom.
	Page 55		Page 57
1	Q. Going back to Exhibit No. 2, I don't see any	1	Q. Okay. Because it's good to have a reference
2	Q. Going back to Exhibit No. 2, I don't see any internal 3M documents that you reviewed. Have you	2	Q. Okay. Because it's good to have a reference material when you discuss a subject; correct?
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2 3 4	Q. Going back to Exhibit No. 2, I don't see any internal 3M documents that you reviewed. Have you ever reviewed any internal 3M documents in formulating your opinions?	2 3 4	Q. Okay. Because it's good to have a reference material when you discuss a subject; correct?A. In some circumstances, yes.Q. I mean when you're having a case study and
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2 3 4 5 6	Q. Going back to Exhibit No. 2, I don't see any internal 3M documents that you reviewed. Have you ever reviewed any internal 3M documents in formulating your opinions? A. I don't recall that I have. Q. Well if it's not listed in Exhibit 2, that	2 3 4 5 6	 Q. Okay. Because it's good to have a reference material when you discuss a subject; correct? A. In some circumstances, yes. Q. I mean when you're having a case study and talk about a patient, sometimes you even make copies of the medical records for others to review
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	Page 58		Page 60
1	I might look at them? What do you mean?	1	Q. And then you went back and edited the
2	Q. Well I mean if you're talk giving a	2	Materials Considered; correct?
3	presentation on thermoregulation, you might have some	3	A. Yes.
4	of the studies that you are relying upon that	4	Q. Okay. With respect to Exhibit 3, that's
5	you're that you're discussing with the people	5	a that's a complete copy of your opinions in this
6	you're giving the presentation to; correct?	6	case; correct?
7	A. In the PowerPoint,	7	A. Yes.
8	Q. Yes.	8	Q. Have you reviewed it
9	A is that what you mean?	9	Did you review it in preparation of today's
10	Yes.	10	deposition?
11	Q. Okay. Why did you remove Dr. Wenzel's	11	A. Yes.
12	science day presentation, May 19th, 2016, from Exhibit	12	Q. How many times did you read it?
13	2?	13	A. I have read it countless times countless
14	A. Well I don't know that I did that I did.	14	times since first drafting it.
15	Q. If you look at Exhibit 1, it's third from	15	Q. So between June 2nd and today you've read
16	the bottom; in Exhibit 2 it's no longer there.	16	it you've read it countless countless times?
17	A. Well, inadvertent.	17	A. Between June 2nd and today, five times
18	Q. You inadvertently deleted something?	18	Q. Five times.
19	A. Yes.	19	A is my best estimate.
20	Q. Did someone tell you to delete it?A. No. I said it was inadvertent.	20	Q. And you believe it's correct? A. Yes.
21 22		21 22	Q. And you stand by all your opinions?
23	Q. How do you inadvertently delete something from a from a document?	23	A. Yes.
24	A. I was editing the document, as you know.	24	Q. Do you want to make any changes to your
25	Q. Okay. So you're not relying any more	25	expert report?
	Q. Only, bo you're not relying any more		enport report.
	Page 59		Page 61
1	I mean did you consider the science day	1	A. No.
2	presentation?	2	Q. Were you aware that science day was off the
3	A. Yes, I did.	3	record?
4	Q. Was it	4	A. No.
5	What presentation was it? Was it a	5	Q. Okay. Were there
6	transcript? A. It was a PowerPoint.	6 7	With respect to Exhibit 4, this is an invoice from you to Deborah Lewis; correct?
7 8		8	A. Correct.
9	Q. A PowerPoint. Okay. Were you at science day?	9	Q. By the way, have you spoken with anyone
10	A. No.	10	internally at 3M regarding your opinions?
11	Q. Are there any other drafts of the Materials	11	A. No.
12	Considered?	12	Q. Okay. Do you recall
1.1.5		13	Has anyone from 3M made any edits to your
13 14	A. No.	13 14	Has anyone from 3M made any edits to your expert report?
14	A. No.Q. And would it be fair to say you deleted this	14	Has anyone from 3M made any edits to your expert report? A. No.
	A. No.		expert report?
14 15	A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation?	14 15	expert report? A. No.
14 15 16	A. No.Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation?A. Yes.	14 15 16	expert report? A. No. Q. Okay. Is this the entire from
14 15 16 17	 A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation? A. Yes. Q. Were you with counsel when you were editing 	14 15 16 17	expert report? A. No. Q. Okay. Is this the entire from Is this your entire work on this case from
14 15 16 17 18	 A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation? A. Yes. Q. Were you with counsel when you were editing the Materials Considered? 	14 15 16 17 18 19 20	expert report? A. No. Q. Okay. Is this the entire from Is this your entire work on this case from June 6 I'm sorry April 6th to June 1st, 2017?
14 15 16 17 18 19 20 21	 A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation? A. Yes. Q. Were you with counsel when you were editing the Materials Considered? A. No, I was not. Q. Did you already meet with counsel, prior to editing the materials, counsel yesterday? 	14 15 16 17 18 19 20 21	expert report? A. No. Q. Okay. Is this the entire from Is this your entire work on this case from June 6 I'm sorry April 6th to June 1st, 2017? A. To which date?
14 15 16 17 18 19 20 21 22	 A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation? A. Yes. Q. Were you with counsel when you were editing the Materials Considered? A. No, I was not. Q. Did you already meet with counsel, prior to editing the materials, counsel yesterday? A. Yes. 	14 15 16 17 18 19 20 21 22	expert report? A. No. Q. Okay. Is this the entire from Is this your entire work on this case from June 6 I'm sorry April 6th to June 1st, 2017? A. To which date? Q. June 1st, 2017. A. Yes. Q. And this is all your work actually up to
14 15 16 17 18 19 20 21 22 23	A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation? A. Yes. Q. Were you with counsel when you were editing the Materials Considered? A. No, I was not. Q. Did you already meet with counsel, prior to editing the materials, counsel yesterday? A. Yes. Q. Okay. So you met with counsel yesterday;	14 15 16 17 18 19 20 21 22 23	expert report? A. No. Q. Okay. Is this the entire from Is this your entire work on this case from June 6 I'm sorry April 6th to June 1st, 2017? A. To which date? Q. June 1st, 2017. A. Yes. Q. And this is all your work actually up to June 14th, 2017; correct?
14 15 16 17 18 19 20 21 22	 A. No. Q. And would it be fair to say you deleted this yesterday, the Dr. Wenzel science day presentation? A. Yes. Q. Were you with counsel when you were editing the Materials Considered? A. No, I was not. Q. Did you already meet with counsel, prior to editing the materials, counsel yesterday? A. Yes. 	14 15 16 17 18 19 20 21 22	expert report? A. No. Q. Okay. Is this the entire from Is this your entire work on this case from June 6 I'm sorry April 6th to June 1st, 2017? A. To which date? Q. June 1st, 2017. A. Yes. Q. And this is all your work actually up to

	Page 62		Page 64
1	June 14th, 2017?	1	Q. Okay. That's a total of 440 minutes you
2 3	A. I don't I don't recall.Q. Do you keep track of your hours?	2 3	spent on pen to paper on your expert report; correct? A. Apparently.
4	A. Yes.	4	Q. Which is approximately 7.33 hours. Does
5	Q. Okay. Where do you keep track?	5	that sound about right?
6	A. On my computer.	6	A. Yes.
7	Q. On your computer. Okay.	7	Q. And you charge \$500 an hour?
8	Can you give me a rough estimate?	8	A. Yes.
9	A. Probably	9	Q. Okay. Have you ever been retained as an
10	A rough estimate, probably an additional 15	10	expert in this case in any case but not have a
11	hours.	11	deposition done?
12	Q. Fifteen. And that would be reviewing your	12	A. Yes.
13	report and preparing for the deposition?	13	Q. Approximately how many times?
14	A. Yes.	14	A. Three or four.
15	Q. Did you review any additional articles?	15	Q. Were they for the defense or the plaintiff?
16	A. Did I review any additional articles when?	16	A. They were for the defense.
17 18	Q. Between June 14th, 2017 and today that's not in Exhibit 2 or we've discussed today.	17 18	Q. So you've never been retained by a plaintiff?
19	A. No. I think we've discussed everything.	19	A. Correct.
20	Q. Okay. And would it be fair to say that with	20	Q. Have you ever been asked to be to rep
21	respect to your expert report, that Exhibit 4 is a sum	21	by a plaintiff's attorney to act as an expert?
22	of all the time in preparing and formulating your	22	A. No.
23	opinions outlined in Exhibit 3?	23	Q. Did you make any changes to your expert
24	A. Judge judging by the dates of the invoice	24	report after May 25th, 2017?
25	and the report, I think that's a fair conclusion.	25	A. I don't recall.
	Page 63		Page 65
1		1	
1 2	Page 63 Q. So the answer to my question is yes. A. Yes.	1 2	Page 65 (Exhibit 5 was marked for identification.)
	Q. So the answer to my question is yes.		(Exhibit 5 was marked for
2	Q. So the answer to my question is yes.A. Yes.Q. Okay. And I assume that all the time that you worked on your expert report, you you described	2	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of
2 3	Q. So the answer to my question is yes.A. Yes.Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct?	2 3 4 5	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd,
2 3 4 5 6	 Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction 	2 3 4 5 6	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your
2 3 4 5 6 7	Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction between rev reviewing documents and and drafting	2 3 4 5 6 7	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your curriculum vitae?
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2 3 4 5 6 7 8 9	Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction between rev reviewing documents and and drafting the letter. Q. You can?	2 3 4 5 6 7 8 9	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your curriculum vitae? A. Yes, it is. Q. You have made no changes since June 2nd,
2 3 4 5 6 7 8 9	Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction between rev reviewing documents and and drafting the letter. Q. You can? A. No, I can't.	2 3 4 5 6 7 8 9 10	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your curriculum vitae? A. Yes, it is. Q. You have made no changes since June 2nd, 2017?
2 3 4 5 6 7 8 9 10	Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction between rev reviewing documents and and drafting the letter. Q. You can? A. No, I can't. Q. You understand that "review" is different	2 3 4 5 6 7 8 9 10	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your curriculum vitae? A. Yes, it is. Q. You have made no changes since June 2nd, 2017? A. Correct.
2 3 4 5 6 7 8 9 10 11 12	Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction between rev reviewing documents and and drafting the letter. Q. You can? A. No, I can't. Q. You understand that "review" is different than "draft."	2 3 4 5 6 7 8 9 10	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your curriculum vitae? A. Yes, it is. Q. You have made no changes since June 2nd, 2017?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. So the answer to my question is yes. A. Yes. Q. Okay. And I assume that all the time that you worked on your expert report, you you described it as "Draft expert letter;" correct? A. I'm not sure I can draw a distinction between rev reviewing documents and and drafting the letter. Q. You can? A. No, I can't. Q. You understand that "review" is different than "draft." A. Well I may do them contemporaneously. Q. Okay. My question is: When you had pen to paper, would that be described as "Draft expert letter?"	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	(Exhibit 5 was marked for identification.) BY MR. ASSAAD: Q. What's been marked as Exhibit 5 is a copy of your curriculum vitae provided to us on June 2nd, 2017. Is this the most-up-to-date copy of your curriculum vitae? A. Yes, it is. Q. You have made no changes since June 2nd, 2017? A. Correct. Q. Okay. No new publications? A. No, I don't think so. Q. Okay. Are you board certified? A. Yes. Q. When did you become board certified?
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	Page 66		Page 68
1	Q. Okay. And now you're a consultant or on	1	A. Safety is paramount with respect to
2	advisory for a couple companies; correct?	2	patients.
3	A. No.	3	Q. And physicians should do everything
4	Q. You don't	4	strike that.
5	You're fully retired?	5	Do you have any experience designing a
6	A. No, I'm not a consultant for companies.	6	medical device?
7	Q. Well it says "Principal Consultant,	7	A. Many many years ago I began the
8	ORDxRx"	8	process and quickly abandoned it of developing a
9	A. That is that is a that is a company of	9	tooth guard, a tooth guard for intubation, but it
10	which I'm a princ a principal.	10	was the design was never completed. It was never
11	Q. Were you at one	11	brought to market or patented. So that is the limit
12	Okay. So you're a principal consultant.	12	of my experience.
13	A. Yes.	13	Q. Do you have any patents?
14 15	Q. Are you a shareholder? A. Yes.	14 15	A. No.
16	A. Tes. Q. What percentage?	16	Q. Have you ever dealt with the FDA? A. Have I ever dealt with the
17	A. In the teens probably.	17	Q. With a medical device issue or
18	Q. Okay. Do you know Ms. Hughes?	18	A. No.
19	A. Ms. Hughes?	19	Q. Okay. You mention in your expert report
20	Q. Antonia Hughes, an expert in this case.	20	that you've acted as an anesthesiologist on
21	A. No.	21	approximately 400 total joint arthroplasties. Does
22	Q. Okay. It also says "Chief Quality Officer	22	that sound about right?
23	(interim), American Association of Anesthesiologists."	23	A. Yes, it does.
24	Is that still current?	24	Q. And that's over your career of since
25	A. Yes.	25	1983?
	Page 67		Page 69
1		1	
1 2	Q. Okay. And it says "Senior Research	1 2	A. 1980, yeah. Well it depends whether you
1 2 3			
2 3 4	Q. Okay. And it says "Senior Research Scientist, Brigham & Women's Hospital"	2 3 4	A. 1980, yeah. Well it depends whether you count residency or not or or not. But it's a
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Page 70 Page 72 Q. When you say "more," are you talking about A. -- do you want to rephrase that? 1 1 like double? Q. Well you -- you agree that allowing nurses 2 2 to -- to administer anes -- anesthesia care without 3 3 A. No. But I mean 25, 30 percent more -- more. As -- as I said, it's not something I keep regular supervision would be dangerous; correct? 5 count of, but when I think back on, you know, how 5 A. Correct. 6 many -- how many per week over how many weeks and 6 Q. Well how many operating rooms can you run at 7 so -- so forth, the estimate is in that range. 7 one time with -- with nurse anesthetists by 8 8 O. Do you have -supervising them? Do you work with nurse anesthetists? 9 A. What is the meaning of "can?" 9 10 10 A. Sometimes I do, yes. Q. Like how many --Q. Okay. Do you supervise nurse anesthetists? How many operating rooms have you ran at one 11 11 12 A. Yes. 12 particular time simultaneously? 13 Q. You don't believe that they should be able 13 A. Two. 14 to practice anesthesiology without supervision; 14 Q. One with a nurse anesthetist and you? A. No, two nurse anesthetists and me. 15 correct? 15 Q. Okay. Now with respect to your CV, so 16 16 A. Correct. Q. You've actually written an article on Ariadne --17 17 that or you -- you commented in an article regarding How do you pronounce that? 18 18 an issue about allowing nurses to take on full 19 19 A. Ariadne. responsibility for anesthesiology; correct? 20 20 Q. -- Ariadne Labs, they put out a checklist 21 A. I don't know what you're reference --21 for surg -- surgical patient safety. 22 referencing, but I believe that that is -- that is my 22 A. Correct. 23 opinion. 23 Q. Okay. And one of them is using a forced-air warming de -- or warming device, correct, on the Q. Okay. I mean at one time the Institute of 24 24 Medicine wanted to give nurses a bigger role and you 25 checklist? 25 Page 73 Page 71 argued against it. Do you recall that? A. I'm not familiar with that. 1 A. I don't -- I --Q. Okay. By the way, when you do -- when --2 2 3 I have publicly stated that op -- that 3 How long does a total knee or total hip opinion. Whether it was in reference to something arthroplasty take when you were an anesthesiologist? 4 A. Approximately an hour, sometimes --5 that the Institute of Medicine said or someone else 5 said, I'm not sure. But I have publicly stated that 6 sometimes as much as two. 7 7 Q. Okay. I'm talking about like a primary opinion. 8 Q. And you said that patients want doctors, not 8 arthroplasty. A. It var -- it varies by surgeons, size of 9 nurses: correct? 9 10 A. I have stated that public opinion polls 10 patients, many factors, the type of hardware being -suggest that that's the case. being used, so I can't state a precise number of --11 11 Q. And you argued about pushing doctors' jobs applicable to all such operations. So there's a 12 12 into nurses' hands: correct? 13 13 range. 14 A. That doesn't sound familiar to me. 14 Q. Would it be fair on average it would be Q. Do you recall an editorial in the New York 15 about an hour? 15 Times that you were commenting on about giving --16 16 A. An hour and a half. The New York Times had an editorial about 17 17 Q. You think an hour and a half? giving nurses bigger roles. Do you recall that? 18 18 19 A. I do recall that. 19 Q. Did you read Dr. Mont's deposition where he Q. Okay. And you said it would be dangerous to 20 20 said that he does it in 25 minutes? allow nurses to administer anesthesia care. 21 21 A. I -- I don't recall -- recall that he said 22 A. Without supervision. 22 that, but if he did, he did. 23 Q. Yes. 23 Q. Do you think that's achievable to do, from -- from incision to close, in 25 minutes? A. Well --24 24 25 O. Yes. 25 A. Well it depends what he's -- what he's

	Page 74		Page 76
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	counting towards the towards the 25 minutes. Q. From incision to close. A. I I've never I've never seen a total joint replacement done in twenty skin to skin in 25 minutes. Q. Okay. A. Whether it's possible or not, I can't comment. Q. You agree with me that patient warming is not indicated for surgery that lasts one hour or less; correct? A. No. Q. You disagree? A. I disagree. Q. Okay. Do you believe perioperative warming actually works in the first hour? A. I think the longer perioperative warming is applied, the more likely you are to achieve normo normothermia, so it's a so it's a continuum. Q. That wasn't my question. Do you believe that main like patient warming in the first hour has any effect on a patient's temperature? A. Yes, it does.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I I haven't done the math, but I have spoken frequently on those subjects. Q. I mean let's go through your your talks starting on page six. Oh, before I get there, what is this medical malpractice committee that you're on? A. Committee? Q. Yes. Hold on. The Massachusetts A. Medical malpractice tribunal? Q. Yes. A. The law in Massachusetts requires that medical malpractice cases be heard by a three-member tri tribunal before they're allowed to go allowed to go forward. The three-member tribunal is constituted by a physician, a judge, and an attorney. I think there is a requirement that it be a physician of the same specialty. So from time to time over many years although not recently I've been asked to serve on those those tribunals as the anesthesiologist member. Q. When when when a someone wants to sue an anesthesiologist? A. Yes.
24 25	Q. In the in the first hour.A. Yes, it does.	24 25	Q. How many times did you sit on the panel?A. Probably eight or 10, roughly.
23	A. Tes, it does.	23	A. Trobably eight of 10, roughly.
1 2 3 4 5 6 7	Page 75 Q. Now in looking at Exhibit 5, can you direct me to any article in which you have discussed thermoregulation? A. I think the only the only one is Anesthesia & Analgesia in 2008.	1 2 3 4	Q. In any of those instances, did you ever find that the anesthesiologist was negligent? A. The purpose of the tribunal was not to make a judgment about whether the anesthesiologist was
8 9 10 11 12 13 14 15 16 17	 Q. 2008. Was it a peer-reviewed article? A. It's an invited editorial. Q. Is it under "PUBLICATIONS?" A. Yes. Page 15, about halfway down. Q. Okay. And that was an editorial that you wrote with Sessler Dr. Sessler. A. Yes. Q. And it wasn't peer-reviewed; correct? A. Correct. Q. Okay. Because it was an editorial. A. Correct. Q. Okay. And that really had nothing to do 	5 6 7 8 9 10 11 12 13 14 15 16 17	negligent. Q. What was the purpose of the panel? A. Whether it met a stan the the standard for allowing it to go to trial. Q. What standard is that? A. Is that the the evi the evidence presented supported an expert opinion that there was well "supported the expert opinion" that the ex the expert opinion relied on documented fact in in the alleg in forming the allegation. Q. Did you ever vote to allow a case to go forward? A. Yes.

	Page 78		Page 80
1	numerous times in your CV. What is relative value	1	that's about the economics of anesthesia; correct?
2	with respect to anesthesiology?	2	A. Yes.
3	A. Relative value refers to a a a payment	3	Q. "The Economics of Private Practice" again is
4	system of aligning different physician services	4	about the economics of anesthesia and how to increase
5	according to their relative value. The relative	5	your profits; correct?
6	val value itself reflects three components: the	6	A. The that is
7	physician work involved, the practice expenses	7	That one is not so much about increasing
8	involved, and the cost of professional liability	8	your profits, it's more methodological, it it being
9	insurance for those providing that service.	9	a presentation for residents.
10	Q. And would it be fair to say that a lot of your work done in the past dealt with trying to	10 11	Q. I mean the next two down, "Ins and Outs of
11 12	educate and work to increase the payments made to	12	Anesthesia Reimbursements," that's about the money; correct?
13	anesthesiologists?	13	A. It is about the method of payments from
14	A. Yes.	14	payers to anesthesiology practices, from
15	Q. Okay. So in other words, a lot of your	15	anesthesiology practices to the employees of those
16	lectures dealt with the money.	16	practices, so it is financially oriented.
17	A. They dealt with the relative value payment	17	Q. It's about the money; correct?
18	system.	18	A. Yes.
19	Q. The money.	19	Q. Okay. Two more down, "The Perils of RBRVS
20	A. Okay.	20	Payment in Anesthesia." What's RBRVS?
21	Q. All right. Again today it's about the	21	A. Resource Based Relative Value System.
22	money; right?	22	Q. So it's about the money; correct?
23	A. If you say.	23	A. Yes.
24	Q. I'm asking what you say. I mean we could go	24	Q. "The Perils of Medicare RBRVS," that's about
25	one by one and I could go and ask you, but a lot of it	25	the money; correct?
	Page 79		Page 81
1	has to do with the money.	1	A. Yes.
2	A. Sure.	2	Q. And then "Anesthesia and Medicare," that's
3	Q. Okay. A. Yeah.	3	also about reimbursement from Medicare; correct? A. Yes.
5	Q. Like, for example, number one on page six,	5	Q. It's about the money; correct?
6	invited lecture, presentation, "Anesthes Anesthesia	6	Yes?
7	Reimbursement;" correct?	7	A. Yes.
8	A. Yes.	8	Q. Okay. "Basics of Anesthesia Reimbursement,"
9	Q. That's about the money; correct?	9	that's also about the money; correct?
10	A. It's about the mon money and the	10	A. Yes.
11	methodology underlying the money.	11	Q. "Emerging Trends in Reimbursement,"
12	Q. Okay. Next one, "Basics of Anesthesia	12	that's about the money, correct?
13	Economics," that's about the money as well; correct?	13	A. Yes.
14	A. Yes.	14	Q. Let's go a couple down, "Analyzing the
15	Q. Next one, "Basics of an Anesthesia	15	Profitability of Anesthesia Fee Schedules," that's
16	Agreement," that's about creating agreements with	16	about the money; correct?
17	hospitals to make more money; correct?	17	A. Yes.
18	A. It's not about agreements with hospital	18	Q. "New Trends in Anesthesia Reimbursement,"
19	with hospitals, it's about agreements with payers.	19	that's about the money; correct?
20	Q. With payers.	20	A. Yes.
21	I mean it's about how to get paid the most	21	Q. Okay. So you agree that most of these are
22	for your services; correct?	22	about the money; correct?
23	A. It's about how to get get paid an	23	A. Yes.
24	equitable amount for our services.	24	Q. Okay. Very little science, scientific
25	Q. "The Changing Business of Anesthesia,"	25	research, all about the money; correct?

	Page 82		Page 84
1	A. Yes.	1	Q. Was it not
2	MS. LEWIS: Objection to form.	2	Wasn't part of that pay for performance?
3	Q. In fact, there's very little scientific	3	A. A part of that lecture? No.
4	research in these invited presentations; correct?	4	Q. Are you sure about that?
5	A. In that in that period of time, yes.	5	A. Yes.
6	Q. We go to page seven, number two, "Commercial	6	Q. Okay. Is that the one where you saw Dr.
7	Payments Based on the Medicare Fee Schedule," that's	7	Scott Augustine?
8	about the money; correct?	8	A. No.
9	A. Yes.	9	Q. Okay. But the next one is "Pay For
10	Q. Next one, "Introduction to Anesthesia	10	Performance;" correct?
11	Economics," that's about the money; correct?	11	A. Correct.
12	A. Yes.	12	Q. That's about the money.
13	Q. I mean I	13	A. Yes.
14	Almost every single one of these is	14	Q. "The Hospital Stipend Goldrush," that is
15	something to do about the money; correct?	15	about the money?
16	A. In that period of time, yes.	16	A. Yes.
17	Q. Okay. So would you agree with me that most	17	Q. "Pay For Performance," next one, is that
18	if not all invited lectures on page seven is about the	18	about the money?
19	money?	19	A. In part.
20	A. On page seven?	20	Q. Okay. And the next two or three are about
21	Q. Yes.	21	pay for performance; correct?
22	A. Sure.	22	A. In part.
23	Q. Okay. Let's go to page eight. Number two,	23	Q. Okay. You have "Malignant Hypo
24	"Medicare Forecast 2004," that's about the money;	24	Hyperthermia;" correct?
25	correct?	25	A. Yes.
	Page 83		Page 85
1	Page 83	1	Page 85
1 2	A. Yes.	1	Q. That's not any
2	A. Yes.Q. "Anesthesia Reimbursement," that's about	2	Q. That's not any That doesn't deal with any issues in this
2 3	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct?	2 3	Q. That's not any That doesn't deal with any issues in this case; correct?
2 3 4	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes.	2 3 4	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct.
2 3 4 5	 A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," 	2 3 4 5	 Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that
2 3 4 5 6	 A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? 	2 3 4 5 6	 Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these
2 3 4 5 6 7	 A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. 	2 3 4 5 6 7	 Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money?
2 3 4 5 6	 A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in 	2 3 4 5 6 7 8	 Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes.
2 3 4 5 6 7 8	 A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. 	2 3 4 5 6 7	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to
2 3 4 5 6 7 8 9	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money;	2 3 4 5 6 7 8 9	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to deal with reimbursement; correct?
2 3 4 5 6 7 8 9 10	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money; correct?	2 3 4 5 6 7 8 9 10	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to
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2 3 4 5 6 7 8 9 10 11 12	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money; correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to deal with reimbursement; correct? A. What are you referencing? Q. "Science, Politics, Press and Money."
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money; correct? A. Yes. Q. "Professional Fees and Other Departmental Financial Support," that's about the money; correct?	2 3 4 5 6 7 8 9 10 11 12 13	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to deal with reimbursement; correct? A. What are you referencing? Q. "Science, Politics, Press and Money." A. That is about the activities of the American
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money; correct? A. Yes. Q. "Professional Fees and Other Departmental Financial Support," that's about the money; correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to deal with reimbursement; correct? A. What are you referencing? Q. "Science, Politics, Press and Money." A. That is about the activities of the American Society.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money; correct? A. Yes. Q. "Professional Fees and Other Departmental Financial Support," that's about the money; correct? A. Yes. Q. "Anesthesia Economics," that's about the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to deal with reimbursement; correct? A. What are you referencing? Q. "Science, Politics, Press and Money." A. That is about the activities of the American Society. Q. Of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. "Anesthesia Reimbursement," that's about the money; correct? A. Yes. Q. "Payment for MAC and Conscious Sedation," that's about the money; correct? A. Yes. Q. "Coding and Compliance Considerations in Monitored Anesthesia Care," that's about the money; correct? A. Yes. Q. "Professional Fees and Other Departmental Financial Support," that's about the money; correct? A. Yes. Q. "Anesthesia Economics," that's about the money; correct? A. Yes. Q. Okay. You agree with me that most if not all on page eight are invited lec presentations about the money? A. Yes. Q. Okay. Let's go to page nine. First one,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. That's not any That doesn't deal with any issues in this case; correct? A. Correct. Q. All right. Would you agree with me that except for one or two on page nine, that most of these invited presentations are about the money? A. Yes. Q. Okay. And also the politics to to to deal with reimbursement; correct? A. What are you referencing? Q. "Science, Politics, Press and Money." A. That is about the activities of the American Society. Q. Of A. Anesthesiologists. Q anesthesiologists; correct? A. Yes. Q. Which at one time you were the president; correct? A. Correct. Q. And it's a and it has it's a lobb
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	Page 86		Page 88
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$\begin{array}{ c c }\hline 1\\ 2\end{array}$	for the ASA; correct? A. Correct.	1 2	Q. "Pay For Performance," that's about the money; correct?
3	Q. Okay. So page 10, first one, "Pay For	3	A. As I have said before, it's about the the
4	Performance and the Anesthesiologist," that's about	4	money and the clinical practice required.
5	the money; correct?	5	Q. It has a money component.
6	A. It's about the mon money, but like all	6	A. It has a money component.
7	the discussions of pay for performance, it is about	7	Q. Okay. Let's go down. "Medicare Reform,
8	managing clinical care to meet the pay-for-performance	8	Quality and Pay For Performance," that has to do with
9	standards, so it's both about the mon money and	9	money; correct?
10	clinical be and clinical behavior.	10	A. That has something to do with the money.
11	Q. Now pay for performance is where you get	11	Q. Would you agree with me that most on page 10
12	additional money for certain measures; correct?	12	is dealing with the money issues and practice issues
13	A. For certain measures.	13	of anesthesiology?
14	Q. They don't deduct money from you; correct?	14	A. Yes.
15	A. Well it depends when, when you're when	15	Q. Okay. Nothing scientific on on page 10;
16	you're talking about, because in the current program,	16	correct?
17	yes, they yes, they do deduct money deduct	17	A. That's right.
18	money.	18	Q. Okay. No research on page 10; correct?
19	Q. Okay. But during this time, pay for	19	A. In the sense that I was not presenting my
20	performance in 2017, it would add additional money;	20	original research research, that is that is
21	correct?	21	true.
22	A. Correct.	22	Q. And when I say "research," I'm talking about
23	Q. Okay.	23	scientific research dealing with patient care.
24	A. Correct, for those physicians who achieved	24	A. Well the curr
25	the benchmarks established in the pay-for-performance	25	The pay-for-performance standards are
	Page 87		Page 89
1		1	
1 2	program.	1 2	grounded in scientific in scientific research, so
1 2 3	program. Q. When did they start when did they start	1 2 3	
2	program.	_	grounded in scientific in scientific research, so in that in that sense it is not devoid of of
2 3	program. Q. When did they start when did they start deducting money for not meeting the pay-for-	3	grounded in scientific in scientific research, so in that in that sense it is not devoid of of science.
2 3 4	program. Q. When did they start when did they start deducting money for not meeting the pay-for-performance standards?	3	grounded in scientific in scientific research, so in that in that sense it is not devoid of of science. Q. I guess my question is: No research with
2 3 4 5	program. Q. When did they start when did they start deducting money for not meeting the pay-for-performance standards? A. Well they Based on this year's performance, they will deduct mon money in the 2019 payments, so there's a	3 4 5 6 7	grounded in scientific in scientific research, so in that in that sense it is not devoid of of science. Q. I guess my question is: No research with respect to like clinical studies or research on patient care, it was more of how certain standards and pay for performance were going to be met.
2 3 4 5 6	program. Q. When did they start when did they start deducting money for not meeting the pay-for-performance standards? A. Well they Based on this year's performance, they will deduct mon money in the 2019 payments, so there's a two-year-cycle lag.	3 4 5 6	grounded in scientific in scientific research, so in that in that sense it is not devoid of of science. Q. I guess my question is: No research with respect to like clinical studies or research on patient care, it was more of how certain standards and pay for performance were going to be met. A. In explain in explaining what the
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Page 90 Page 92 discuss -existence, but the physician quality measures that is 1 analogous is still in existence. 2 You're referencing research articles, you're 2 3 Q. But SCIP-10 is no longer in existence; not presenting research articles; correct? A. I don't understand the difference between -correct? 5 Q. For example --5 A. Correct. 6 A. -- referencing and presenting --6 Q. And that was dealing with thermoregulation; 7 7 Q. Okay. correct? 8 A. -- a research article. 8 A. Correct. Q. Well -- well, for example, I'm Andrea Kurz 9 Q. Go to page 11. and I just came out with my 1996 study, "I'm going to 10 10 Well, you agree with me that most of page 10 talk about it, and here's my study and this is the deals with some issue about pay for performance or 11 11 basis of my study." That's presenting a research 12 12 money of anesthesiologists. paper; correct? 13 13 A. That's correct. 14 A. That's presenting my own research paper. 14 Q. Okay. "A Visit to the Sausage Factory," 15 15 what's that about? A. Is that the distinction you're trying to A. That was a pre -- presentation made in 16 16 Great -- in Great Britain about American healthcare 17 17 reform and The Affordable Care Act. 18 Q. Yes, or -- yes, or compared to --18 A. Okay. Correct. 19 Q. By the way, you agree with me that 3M -- or 19 20 Q. -- "Hey, we have this - these outcome 20 Arizant at the time -- was involved with the, quote, 21 measures for thermoregulation. And by the way, look 21 unquote, lobbying to get the SCIP measures passed; 22 at Andrea Kurz's article of 1996." That's what you 22 correct? 23 do; correct? 23 A. I don't know that. A. Yes. 24 24 Q. Were you involved with the SCIP measures? 25 Q. Okay. Let's go down -- more down page 15 --25 A. Not -- not directly. I was involved with Page 91 Page 93 or I'm sorry, page 10. You have, you know, six from the physician measures and -the bottom, "Payment Issues Update." That's about the I was involved with the SCIP measures only 2 3 3 money; correct? insofar as we were asked to harmonize the physician 4 A. Yes. 4 normothermia measure with the SCIP-10. 5 Q. "Pay For Performance," that's about the 5 Q. Where is the physician normothermia? Where 6 can I find that? money; correct? A. Well I'll say -- I'll -- I'll say it 7 A. You can find it on the second and third 7 again: The discussions about pay for performance have 8 items in Materials Considered. a financial aspect to -- to them, but the explanation 9 O. Oh, the Centers for Medicare & Medicaid? 10 of the basis of the performance mea -- measures has a 10 A. Yes. scientific component to it. Q. Okay. Now you agree with me that there's 11 11 Q. I understand that, doctor. But people are nothing on page 11 that deals with maintaining 12 12 13 normothermia, the actual research. 13 not --14 You're not giving a lecture on the benefits 14 A. There's talk on performance measur -of normothermia and its scientific basis behind it, 15 measurement in anesthesiology, which, as I have 15 you're saying maintaining normothermia and it's going previously said, would include -- include the 16 to affect pay for performance; correct? scientific basis of the performance measures. 17 17 A. It's -- it's both. I mean the reason we Q. I understand that. But you -- you're 18 18 19 have these performance measures and created them was 19 referring to other people's research in the pay for performance; correct? 20 to drive improvements in care, and that is, as much as 20 21 anything, the message of the presentations on pay for 21 A. Yes. 22 per -- pay for performance. 22 Q. There's nothing on page 11 that deals with Q. By the way, SCIP-10 is no longer in 23 23 any type of research that you've done on maintaining 24 existence; correct? 24 normothermia. 25 25 A. I think we've previously esta -- established A. SCIP-10 -- SCIP-10 is no longer in

	Page 94		Page 96
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that I have not personally conducted basic clinical science research on temperature management. Q. I just like to be a little bit thorough just in case something might trigger your brain later on to saying, "Oh, actually I did something." So let's look at page 12. There's nothing on page 12 that deals with any type of research that you did regarding maintaining normothermia; correct? A. Correct. Q. Okay. And the same thing for page 13, there's nothing in there that deals with maintaining normothermia, any research that you did; correct? A. Correct. Q. Okay. When you were a visiting professor or named lecturer, did you do any research under that section with respect to maintaining normothermia? A. No. Q. Now you agree that many of your publications deal with the actual practice of anesthesia with respect to fee schedules or profitability or relative value. A. I did not hear the question.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Who else would you defer to? A. Well I think, for example, Scott the Hopkins Hopkins group, Dr. Scott and coll and colleagues. Q. Okay. The Hopkins group was just a single- institution study; correct? A. Correct. I believe so. Q. Okay. So anyone else besides Dr. Scott? A. I can't I can't off off the top of my head say say say, but I think it is fair to say that the original research on the subject, Drs. Sessler and Kurz are prominent. Q. I mean you would agree with me that no one knows more about the 1996 study than Andrea Kurz. A. That's correct. Q. Okay. The New England Journal of Medicine. You know which one I'm referring to. A. I know which one you're referring to. Q. As well as Dr. Sessler; correct? A. Correct. (Discussion off the stenographic record.) Q. So would it be fair to say that all the
23	Q. With respect to publications, would you	23	opinions you're going to give today on maintaining
24 25	agree with me that most if not all of those publications deal with let's just say most deal	24 25	normothermia are based on other people's work? A. On other people's re research and my
	Page 95		Page 97
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	with the anesthesia practice itself, you know, Medicare fee schedule, profitability, payments? A. Most. Q. Okay. And sitting here today, based on pages on 11, there's nothing or on page I'm sorry, page 14, there's nothing on page 14 that describes any type of research that you've done on maintaining normothermia; correct? A. Correct. Q. And the same thing with page 15, there's nothing on page 15 that you've done that deals with maintaining normothermia; correct? Research. A. There's nothing that presents original clinical or basic science research by myself. Q. Okay. And on page 16 as well, there's nothing on page 16 that deals with anything that describes any research that you've done on maintaining normothermia; correct? A. Correct.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	clinical experience. Q. Okay. Well let's talk about your clinical experience. Have you looked at your patients and determined the effectiveness of maintaining normothermia and done a comparison? A. And done and done a compar comparison? No, no, I haven't. But I look at my patient's temperature constantly and on every case. Q. I understand that. That's part of your job; correct? A. Correct. Q. Okay. But have you you You've only used the Bair Hugger; correct? A. Correct. Q. You've never used the Mistral? A. Correct. Q. Have you ever used the Hot Dog? A. Correct. Q. Have you ever used VitaHEAT? A. No.
21 22	Q. So basically with all yourWould it be fair to say that with respect to	21 22	Q. Okay. Have you ever used Warmtouch?A. No.
23 24	your knowledge of maintaining normothermia, you would defer to people such as Andrea Kurz and Dr. Sessler?	24	Q. Have you ever used just warm blankets?A. In the remote past.
25	A. People such as those.	25	Q. Okay. Have you ever used reflective

	Page 98		Page 100
1	blankets?	1	A. Yes.
2	A. No, I don't believe I have.	2	Q. And dealing with total hip or total knee,
3	Q. Okay. So your your your entire	3	they want the sterile surg they want the surgical
4	experience of the effectiveness of Bair Hugger is	4	site to be as sterile as possible; correct?
5	based on the fact that you used Bair Hugger for the	5	A. Correct.
6	past 25 years.	6	Q. And they're against having any sort of
7	A. Correct.	7	contaminants in the sterile field; correct?
8	Q. Okay.	8	A. They would like to minimize the contaminants
9	A. My personal experience is based on	9	in the sterile field.
10	Q. You you you haven't compared it	10	Q. And they dislike particles; correct?
11	yourself with any other patient warming device;	11	A. I I don't know that.
12	correct?	12	Q. Well you have read the International
13	A. That's correct.	13	Concensus; correct?
14	Q. You know what a patient warming device is;	14	A. Yes.
15	correct?	15	Q. Have you looked at questions numbers one and
16	A. Well if you want to	16	two dealing with the operating room?
17	A patient war warming device could be	17	A. The conclusion I drew drew from that
18	many it could be many things.	18	that was related to the question of on their
19	Q. I mean there's fluid warming; correct?	19	opinion on the safety of forced-air warming.
20	A. There is fluid warming.	20	Q. So that's the only question you looked at in
21	Q. When I'm talking about patient warming, I'm	21	the International Concensus?
22	talking about something that actually warms the core	22	A. I re reviewed the document, but that is
23	of the body externally.	23	the one that seemed most germane to my my interest.
24	A. Yes.	24	My interest is in clinical infections and not particle
25	Q. Okay. And and there's many different	25	counts.
	Page 99		Page 101
1		1	
1 2	Page 99 modalities for patient warming; correct? A. Yes.	1 2	Q. Okay. You do understand that bacteria
1 2 3	modalities for patient warming; correct? A. Yes.		
2	modalities for patient warming; correct?	2	Q. Okay. You do understand that bacteria travel on particles; correct? Or do you not know
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2 3 4	modalities for patient warming; correct? A. Yes. Q. There is warming through forced air; correct?	2 3 4	Q. Okay. You do understand that bacteria travel on particles; correct? Or do you not know that? A. Bacteria can travel on particles.
2 3 4 5	modalities for patient warming; correct? A. Yes. Q. There is warming through forced air; correct? A. Yes.	2 3 4 5 6 7	Q. Okay. You do understand that bacteria travel on particles; correct? Or do you not know that? A. Bacteria can travel on particles. Q. Bacteria can be airborne. You understand
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	Page 102		Page 104
1	Q. I mean it would have been this week if you	1	Q. Well you don't look to see, you know, the
2	read it.	2	conflicts of interest or anything on on par on
3	A. I'm sorry?	3	articles to see who funded the study?
4	Q. It would have been this week if you read his	4	A. Well you just asked me about a specific
5	deposition.	5	stud study, and I don't recall the conflict-of-
6	A. His	6	interest statement on that on that study or whether
7	I'm sorry. His deposition? No.	7	in fact I read that study.
8	Q. Okay.	8	Q. You were provided that study; weren't you?
9	A. His expert expert letter in science day.	9	A. Which study?
10	Q. Are you aware that 3M cares about particles?	10	Q. The Sessler study.
11 12	MS. LEWIS: Objection, form.	11 12	A. How do you know that?
13	A. I don't I I have no opinion what 3M cares about.	13	Q. I'm assuming that they must have provided it to you since they must have given you some information
14	Q. Well are you aware that they funded a study	14	about what 3M has done.
15	doing particle tests when the Bair Hugger is on and	15	They haven't provided it to you?
16	off?	16	A. Whether they provided it to me or or not,
17	A. I'm not aware of what studies they funded.	17	I don't recall recall reading that study, and, in
18	Q. The Dr. Sessler study, you know, the guy	18	particular to your question, don't recall what the
19	that is well known in the field of maintaining	19	disclosures on that study were.
20	normothermia?	20	Q. Let me ask you this: I assume that 3M
21	A. Is there a question?	21	provided you some documents; correct?
22	Q. Yes. Are you aware that he did a that 3M	22	A. 3M didn't provide
23	funded a study with respect to particle counts?	23	Q. Their attorneys.
24	A. I'm not aware of what fund studies 3M	24	A. Oh.
25	funded.	25	Q. When I'm talking about 3M, their attorneys.
	Page 103		Page 105
1	Q. Well do you know that corporations fund	1	A. Yes.
2	studies?	2	Q. Let's not play games.
3	A. Yes.	3	MS. LEWIS: They're two different things.
4	Q. Okay. You're aware of that.	4	Q. You you understand that
5	A. Yes.	5	A. I've had no contact with 3 with 3M. I've
6	Q. Okay. And usually they fund studies to	6	had contact with Ms. Lewis and her colleagues.
7	determine whether or not their product is safe. You	7	Q. Well you know when you go to trial you're
8 9	understand that? A. Usually they fund studies	8	going to be an expert for 3M, not an expert for Blackwell Burke. You understand that; correct?
10	What's the question?	10	MS. LEWIS: Objection to form.
11	Q. There's many reasons to fund studies;	11	A. If you say so.
12	correct?	12	Q. I mean when you were an expert on behalf of
13	A. Yes.	13	the defense in a medical malpractice case, you were
14	Q. One is to to check out the efficacy of a	14	not an expert on behalf of the defendant's attorneys,
15	product; correct?	15	you were an expert on behalf of the defendant. You
16	A. Yes.	16	understand that; correct?
17	Q. One is to check out the safety of a product;	17	A. If if you say so.
18	correct?	18	Q. Okay.
19	A. Yes.	19	A. I admit I I am offering expert opinions
20	Q. Okay. And were you aware that 3M funded a	20	that are on behalf of myself.
21	study to determine whether or not the other studies	21	Q. All right. Let me ask you this: You
22 23	regarding increased particles or increased bubbles over the surgical site were true or not?	22 23	received documents from 3M or their attorneys; correct?
24	A. I'm not aware aware of which studies 3M	24	A. From their attorneys.
25	funded and which it didn't.	25	Q. Did you read them all?
			J water water

	Page 106		Page 108
1	A. No.	1	A. Correct.
2	Q. You did not read them all.	2	Q. Okay. You're not you're not an engineer;
3	A. I did not read them all.	3	correct?
4	Q. Why not?	4	A. Correct.
5	A. Because many many of them there	5	Q. Okay. You're not going to opine anything
6	were	6	You're not a filtration expert; correct?
7	There were aspects of this case and	7	A. Correct.
8	discussion around this case on which I am not going to	8	Q. You're not going to offer any opinions on
9	have an opinion, on which there are other experts, and	9	the operating room environment; correct?
10	so that I was selective about which materials I	10	A. That
11	reviewed. There's some materials I re I reviewed	11	You'll have to be more specific about that.
12	that I determined were not meaningful in shaping my	12	Q. Okay. You agree with me
13	opinion about the safety of the Bair Hugger, and	13	Can we agree at least that periprosthetic
14	others that were.	14	joint infections are caused by bacteria?
15	Q. So you're not going to offer any opinions on	15	A. Yes.
16	any of the studies that discuss particles or helium	16	Q. Okay. Anything else that could cause a
17	bubbles over the surgical site?	17	periprosthetic joint infection?
18	A. To a limited degree and a limited and a	18	A. I I don't I don't know, but it
19	limited sense, but I am not going to represent myself	19	might there might be such a thing as a fungal
20	as an expert on those on those subjects.	20	infection, but that is again not my expertise.
21 22	Q. Well what does it mean by "limited sense?"	21 22	Q. What about a virus?A. I have never heard of that.
23	A. Well, for example, in the opinion opinion letter I point out point out that there are	23	Q. Okay. And you agree with me that that
24	particle and bubble and airflow studies that use a	24	withdraw that.
25	mod model that to my eye as a practicing	25	So just so I understand, you were provided
	moder that to my eye as a practicing		Do Just so I anderstand, you were provided
	Page 107		D 100
			Page 109
1	anesthesiologist has very little in common with the	1	documents by 3M or their attorneys and you didn't
2	anesthesiologist has very little in common with the actual operating room	1 2	documents by 3M or their attorneys and you didn't review them all.
2 3	anesthesiologist has very little in common with the actual operating room Q. Okay.	3	documents by 3M or their attorneys and you didn't review them all. A. Correct.
2 3 4	anesthesiologist has very little in common with the actual operating room Q. Okay. A and thus its relevance to the discussion	3 4	documents by 3M or their attorneys and you didn't review them all. A. Correct. Q. Okay. How many documents did they provide
2 3 4 5	anesthesiologist has very little in common with the actual operating room Q. Okay. A and thus its relevance to the discussion of what's important in harming my patients is limited	3 4 5	documents by 3M or their attorneys and you didn't review them all. A. Correct. Q. Okay. How many documents did they provide to you?
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2 3 4 5 6 7	anesthesiologist has very little in common with the actual operating room Q. Okay. A and thus its relevance to the discussion of what's important in harming my patients is limited or nil. Q. Okay. But	3 4 5 6 7	documents by 3M or their attorneys and you didn't review them all. A. Correct. Q. Okay. How many documents did they provide to you? A. Prob probably more than a hundred. Q. They provided you more than a hundred
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Page 110 Page 112 You said today you're going to discuss O. Do you have a document that you have that --1 particles and helium and it's not representative of 2 that you get this --3 3 what's going on in the operating room; correct? The A. No. setup. 4 Q. -- .6 percent? A. No. 5 A. I -- right. I'm going to comment on the 5 6 important differences between the experimental models 6 Q. Okay. Do you know what the national average 7 in several -- not all -- of the -- of the studies 7 is? relating to particle counts, et cetera, and my opinion 8 A. It's in the one and -- close to one and a that the experimental mod -- model is substantially 9 half percent. different from a real operating room environment, 10 Q. Okay. And that's for total hip and total 10 knee; correct? which casts doubt on its relevance to the risk of 11 11 12 infection. 12 A. Yes. 13 Q. I understand that. My question is: What --13 Q. And we're talking about periprosthetic joint 14 Do you think having people in the models, 14 infections; correct? the particle or helium models, would make it better or 15 15 A. Yes. worse for particle counts over the surgical site, if Q. And you think that your hospital, which is 16 16 vou know? Welleslev --17 17 A. Newton-Wellesley. 18 A. I -- I don't -- I don't know. But the 18 experimental model would be more important if it -- if Q. -- Newton-Wellesley is better than the 19 19 20 it had people and equipment and so forth. 20 average? 21 Q. So you don't know, sitting here today, 21 A. .6 percent is better than 1.5 percent. 22 whether or not adding people or equipment to the 22 Q. And you're confident about those numbers? operative -- operating room model would increase or 23 23 A. I have confidence in their source. decrease the amount of particles shown in these tests; Q. Okay. And are you as confident in that 24 24 25 source as you are on your other sources listed on correct? 25 Page 111 Page 113 A. Correct. Materials Considered? 1 2 Q. Okay. Do you know how many skin squames are A. Well I'm -- I'm -- I'm hesi -- hesitating because there are items on my Materials Considered shed in a one-hour or two-hour surgery in the that I considered -- thought were misleading or 4 operating room? A. I don't know the number. inconclusive, so I'm not sure I would hold up that 5 5 Q. Okay. Do you know it's in the millions? 6 list as exclusively being items in which I have 6 7 A. If you say so. 7 confidence. Q. You don't know?
A. I don't know. 8 8 O. Why don't we go through Materials Considered, Exhibit 2, and why don't you mark with a 9 9 10 Q. Okay. You mentioned in your report that 10 highlight -- do you have a highlighter? -- all the your infection rate for your institution is .6 11 documents that you are relying upon in formulating percent; is that correct? 12 12 your opinion. A. It was at the time I last inquire --13 13 THE REPORTER: I have a red pen. 14 inquired, which was earlier this year. 14 MR. ASSAAD: That's fine, a red pen works. Q. Earlier this year? 15 (Red pen handed to the witness.) 15 A. Now before I complete -- complete mark --16 A. Yes. 16 Q. Okay. And what type of infections are we marking this, I just want to es -- es -- establish 17 17 that I'm marking -- I'm marking items that contributed 18 referring to? 18 19 A. Total joint arthroplasty infections. 19 to formulating my opinions, which is not synonymous 20 Q. Total joint? 20 with agreeing or accepting the conclusions. So, for 21 example, Legg and McGov -- McGovern have often been 21 A. Yes. cited and presented to me in the campaign I referenced 22 Q. Okay. And where does that information come 22 earlier as items that prove -- prove the risk of the 23 23 from? A. The Direct -- Director of the Joint Center Bair Hugger, so in formulating my opinions I needed to 24 24 25 come to a -- a conclusion as to whether those 25 at the hospital.

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assertions were substantiated or not and on that basis 2 looked at that material and concluded that they did not substantiate it. So I want to understand your

instruction about marking and, having described how

- McGovern and Legg and perhaps others fit into my 6 creation of that opinion, whether to mark them or not.
 - Q. Why don't we do this then. Okay? Why don't you write the letter S next to every article under Materials Considered in Exhibit 2 that support your opinion that the Bair Hugger is safe.
 - A. All right. So I've des -- I've described McGovern, which purports to show that it is hazardous. It does not prove -- it does not prove that. In fact ---
- 15 Q. Why don't you listen to my question, sir. Put an S next to every article on Exhibit 2 that 16 supports your opinion that the Bair Hugger is safe. 17 Please do. 18
- 19 A. I think you need to be clear about whether 20 looking at a stud -- a -- a study that does not 21 support the opinion that it is unsafe should be marked 22 with an S or not.
- 23 Q. Are you saying, sitting here today, that there's no article on Exhibit 2 that supports your 24 opinion and states that the Bair Hugger is safe?

1 Hugger is safe.

> If you can't answer the question, we could go to the court and say that the -- the deponent would not listen to my instructions and put an S next to every article that supports that the Bair Hugger is safe. And I'm fine with doing that. If you don't want to answer the question, we could come back at a later date with a court order. Or if you can't answer the question, just say "I can't answer it."

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Are you done, sir?

- A. No, I'm still thinking about what to do about McGovern.
- 13 Q. If you want to write "Disagree with Mr. 14 McGovern" and put a D in front of it, indicating you disagree with that, that's fine, too. 15
 - A. Okay. Maybe that's a way to get past this.
- Q. All right. So you believe that the 17 International Concensus states that the Bair Hugger is 18 19 safe for use.
 - A. Yes.
- 21 Q. Okay. They didn't talk about further 22 research being needed?
 - A. They probably did both.
- Q. They never --24 25
 - Did it say that the Bair Hugger is safe?

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- A. Oh. no. there -- there are -- there are 2 many -- there are --
- 3
- Q. You can mark them.A. There are many. But what I do or don't do, 4 5 for example, with respect to McGovern, I want to be very clear about what that signifies.
 - Q. Okay. I understand that Mc -- you disagree with the McGovern study.
- 9 A. Okay.

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- Q. I understand that. Okay? My question is different and it's very simple. Put an S next to every article that supports your opinion that the Bair Hugger is safe.
- A. I don't want to -- I don't want to be difficult here, but if I look at a paper that has been represented as proving that it's unsafe and that it is flawed, one could say that that supports the argument that it is -- that it is safe.
- Q. So if I understand you correctly, sir, you're saying that a paper -- a flawed paper that indicates a product is safe, you could logically say that the product is safe?
- 23 A. No.
- Q. Okay. So why don't we put an S where it 24 25 says anything that supports your opinion that the Bair

- A. Yes.
- Q. You don't think they said they understand 3 the theoretical risk posed by the Bair Hugger?

MS. LEWIS: Do you have the document so he can take a look at it?

MR. ASSAAD: He's saying it's safe. I don't have a document.

- A. So I can't -- I can't quote it, but the conclusion I drew from reviewing it was that they supported the use of Bair Hugger in orthopedic implant surgery.
- Q. The 1996 Kurz New England Journal of Medicine article, you believe that she states in there that the Bair Hugger is safe for use.
- A. I think she says -- she states that the result of using the Bair Hugger was a reduction in surgical-site infections.
- O. You know what the issues in this case are: correct?
- A. Yes.
- 21 Q. Did you understand my question when I said "safe to use," or do I need to go over the allegations 22
- 23 in this case with you?
- A. Well I think the reduct -- the reduction in 24 25 surgical-site infections addresses directly the

Page 118	Page 120
allegation in the case. Q. All right. So you believe that Kurz says that the Bair Hugger is safe for use; correct? A. Yes. Q. Okay. You agree that Kurz did not use It wasn't an orthopedic case; correct? A. Correct. Q. Okay. And you believe that Frisch indicates that the Bair Hugger is safe to use? A. Frisch documented a small decrease in surgical-site infections. Q. Okay. What Which one of these articles looked at the safety of the Bair Hugger being used in periprosthetic joint infections? A. With respect to clinic the frequency of periprosthetic joint infections Q. Yes. A per se, there isn't such a study. Q. Okay. So you agree with me that, sitting here today, there's there's not one study that indicates whether or not maintaining normothermia reduces the incidence of periprosthetic joint infections. A. No. I would I would say that the	Q. You don't deal with the patients later on when they actually get the infection; correct? A. Correct, except for those who require additional surgery. Q. I understand that. For an infection; correct? A. Or dislocation or a variety of indications for reoperation. Q. But you don't you don't follow your You don't follow the patient after they leave the post-op; correct? A. Briefly. Q. Okay. Okay. But whether or not they obtain a periprosthetic joint infection, there's no way for you to even know that unless they came back in and you remembered them being in the hospital before. A. In in general, that's true. Q. Okay. So with respect to you agree with me that there's no you know what strike that. Do you know what evidence-based medicine is? A. Yes. Q. Okay. And that's where you have evidence of a certain evidence to support a position; correct? A. Well, to support a practice, yes. Q. Okay. So what evidence is there, scientific
Page 119	
existing evidence in other settings demonstrates that, the risk of surgical infections, and there's no reason to believe that orthopedic surgery would be different from the surgeries that have been studied and in which a reduction in the risk of infection has been documented would be different. Q. You you think a colorectal surgery where you cut the gut open and it's a dirty surgery is the same as placing an implant? A. No, I don't think it's I I don't think the surgery is the same. Obviously, it's not. Q. You understand that an implant deals with bacteria different than human tissue. A. Yes. Q. You understand that; correct? A. Yes. Q. I mean I know you're not an infectious disease expert, but you learned that in medical school; correct? A. Yes. Q. Okay. By the way, you only deal with the patient in the anesthesia or like pre-op, perioperatively and post-op; correct? A. Yes. A. Yes.	evidence not, "Well, look at these other studies, so the same thing must happen," but real real scientific evidence here that maintaining normothermia reduces the incidence of periprosthetic joint infections? A. The scientific evidence has to has to do with microcirculation and tissue perfusion with oxygen and neutro and neutrophils being the main mechanism of host defense against wound contamination, and that physiol physiology is common to all surgical incisions. Q. Give me a scientific paper that indicates that oxygenation can reduce infections on an implant that's contaminated with bacteria. A. I'm not able to do that. Q. Okay. Name me one peer-reviewed literature that indicates that neutrophils have an effect on fighting bacteria on a contaminated implant. A. Well I'm I'm only I'm only going to say that the role of neutro neutrophils in combating bacteria is basic is basic science, and I can't produce the bibliography to support that, but every medical student understands that neutrophil neutrophils play a role in controlling Q. Okay.

	Page 122		Page 124
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A bacter bacteria in surgical wounds. Q. Let's talk about science then. How do neutrophils travel A. How do neutrophils travel? Q in the body? A. In in the bloodstream. Q. Okay. So you have to have circulation so the neutrophils could get to the bacteria to fight bacteria; correct? A. Yes. Q. Okay. So on an implant, okay, where if the implant is contaminated with bacteria We agree that an implant doesn't have circulation; correct? A. The implant itself does not have circulation. Q. Okay. So there is Since there's no circulation, there's no blood, therefore no neutrophils, therefore how do the neutrophils fight the bacteria?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	surgery. Q. The Frisch article you cited, you agree with me that there is no difference between patients that were maintained normothermic and were hypothermic in infection rates. A. Can I see the paper, please? Q. You cited it. I don't have it. You don't have it with you? A. Well I don't want to answer without checking the details. Q. Okay. So you don't know the answer to that question of what Frisch did with respect to what the infection rates are; correct? A. Frisch, there was small a small number of patients in the cold in in the cold group, in the hypothermic group, who had infections. I don't remember the statistical significance of that difference, and that's why I'm hesitant hesitating without referencing the document. Q. You didn't cite Frisch in your report; did
20 21 22 23 24 25	They can't; can they? Or if you don't know, you don't know. MS. LEWIS: Can you let him finish before you jump in? MR. ASSAAD: I don't want him to guess,	20 21 22 23 24 25	you? A. No, I don't believe I did. Q. Okay. Tissue perfusion, that's blood flow; correct? A. Yes.
	Page 123		Page 125
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	though. He was about to guess. A. No, it's it's Part of the answer depends on how the prosthesis is getting getting contaminated and whether the tissue whether it's contaminated from bacterial load in the ti in the tissues or not. If that were the case and I don't think you know you know how in any case a prosthetic gets contaminated then the effect of circulation, oxygen and neu and neutrophils in the tissues, unless unless you're suggesting that a bacterium from the patient's skin skin somehow bypasses everything and goes directly to the prosthetic material Q. Well that's impossible; isn't it? A. Well I don't I don't know. That sounded as though it was the basis of your question. Q. Well I mean can can a bacteria from the patient's skin pass through the tissue and the muscle to get straight to the implant? I mean they don't fly; do they?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. And again, if the if the implant is contaminated with bacteria and there's no blood flow, would you agree with me that the mechanisms in which maintaining normothermia assists in surgical-site reduction don't apply? A. I'm not able to answer that question. Q. You can't answer that question. A. Correct. MR. ASSAAD: Okay. Let's take a break. THE REPORTER: Off the record, please. (Recess taken.) BY MR. ASSAAD: Q. With respect to the International Concensus that you referred to in Exhibit No. 2, did you read the entire thing? A. I I scanned it. Q. Do you know how long it is? A. I seem to remember about 40 pages, but I'm guessing. Q. Forty pages?
21 22 23 24 25	A. No, but Well in in the tissues and and skin they are phagocytized by the neutro by the neutrophil, and that's why why those factors are important important even in prosthetic joint	21 22 23 24 25	A. Yes. Q. Okay. Now with respect to the infection rates in your hospital That's the Newton-Wellesley Hospital; correct?

	Page 126		Page 128
1	A. Newton-Wellesley, yes.	1	corporation; correct?
2	(Exhibit 6 was marked for	2	A. If you say so.
3	identification.)	3	Q. You don't know?
4	BY MR. ASSAAD:	4	A. I don't know what the value of 3M is.
5	Q. Have you heard of Hospital Compare?	5	Q. Okay.
6	A. Yes, I have.	6	A. It's large.
7	Q. And that's done by the Medic by Medicare;	7	Q. Okay. One of the bigger companies in the
8	correct?	8	United States; correct?
9	A. Yes.	9	A. If you say so.
10	Q. Do you see where on page one of Exhibit 6 it	10	Q. I mean you see their products all over the
11	says, "National complication rate for hip/knee	11	place; correct?
12	replacement patients was 2.8 percent?"	12	A. Yes.
13	A. Yes, I do.	13	Q. Okay. They go from Post-It notes to
14	Q. See that?	14	surgical drapes; correct?
15	A. Yes.	15	A. Yes.
16	Q. Okay. And then under "Hospital name" it has	16	Q. You use their surgical drapes; don't you?
17 18	"NEWTON-WELLESLEY HOSPITAL?" A. Yeah.	17 18	A. I don't know. Q. You don't know?
19	A. Tean. Q. Correct?	19	A. I don't know whose surgical drapes we use.
20	A. Yes.	20	Q. You use their Bair Hugger device; correct?
21	Q. And it's check marked "No different than the	21	A. Yes.
22	national rate;" correct?	22	Q. Now with respect to Andrea Kurz's
23	A. That is what it says, yes.	23	deposition, was any of the deposition highlighted that
24	Q. That's opposite of what you put in your	24	you reviewed?
25	report; correct?	25	A. No, I don't believe so.
	1 /		<i>'</i>
	Page 127		Page 129
1	A. Uh-huh.	1	Q. Was any of it marked off?
2	Q. Yes?	2	A. No, I don't believe so.
3	A. Yes.	3	Q. Were you told to go to a certain area to
4	Q. Okay. Now with respect to Andrea Kurz's	4	read, certain line number?
5	deposition, what did you read in her deposition?	5	A. No.
6	A. There was a discussion about the differences	6	Q. Okay. Was there any other depositions that
7	in how she would design the study today as compared to	7	you recall scanning that you remember?
8	what she did in 1996.	8	A. I recall scanning a Sessler deposition.
9	Q. Okay. Did you read the entire deposition?	9	Honestly, I can't remember whether it was in this
10	A. I scanned it.	10	in in this multidistrict case or in one of the
11 12	Q. You scanned it? A. Yes.	11 12	earlier ones.
13	Q. Okay. Did you have a limit on the amount of	13	Q. Did you use any of the information that you obtained in the previous case, in in the Walton and
14	time that you could spend working on this case?	14	Johnson case, in drafting your report in this case?
15	A. No.	15	A. Oh, yes. Yes. I mean I thought the issues
16	Q. Were you were you	16	are very are very similar, so my thinking about
17	Were there any constraints on how many hours	17	Walton and Johnson in many respects relates to the
18	you could review materials?	18	questions in this case.
19	A. No.	19	Q. I mean in fact you didn't you did not
20	Q. Okay. You you understand that 3M was	20	start your report from scratch for for this expert
21	paying your bill; correct?	21	report, which is Exhibit 3; correct?
22	A. Was paying whose bill?	22	A. I had written written reports on Walton
23	Q. Your bill.	23	and Johnson in the past.
24	A. Yes.	24	Q. And they are very similar to Exhibit 3;
. 0.	Q. Okay. And 3M is a multi-billion-dollar	25	correct?
25			

	Page 130		Page 132
1	A. In in some respects. Obviously, this	1	Q. Why not?
2	report doesn't reference anything about Walton or	2	A. I wasn't asked to.
3	Johnson.	3	Q. Well wasn't that part of the subpoena, all
4	Q. I understand that. But with respect for	4	the invoices in the Bair Hugger litigation?
5	Walton and Johnson, the the substance of your	5	A. Well it depends
6	report is pretty much identical to what was in Walton	6	I I don't recall the the wording, but
7	and Johnson.	7	at least when I was thinking about it I was thinking
8	A. Right, it is similar.	8	about the current action, the current action, and
9	Q. Very similar. Do you agree?	9	thinking of that as distinct from the others.
10	A. You want to define "very" "very similar?"	10	Q. Did you ask anyone did you ask anyone
11	It's similar.	11	whether or not this included the invoices for Walton
12	Q. I mean you almost have the same headings.	12	and Johnson?
13	A. That may be the case. I don't recall the	13	A. Yes, I did.
14	Walton and Johnson letters at this time.	14	Q. Okay.
15	Q. Did you review what the Walton and	15	A. And I was told to limit limit the
16	Johnson expert reports in preparation for today's	16	invoices I produced to this this case.
17	deposition?	17	Q. Okay.
18	A. No. I reviewed this one.	18	MS. LEWIS: Counsel, we made our
19	Q. Okay. Did you review Walton and Johnson's	19	objections which you guys have on the subpoena
20	reports before you wrote this report, Exhibit 3?	20	and with respect to the scope of your subpoena and
21	A. Oh, yes. Yes.	21 22	time.
22 23	Q. And in fact you just opened up the report and just made changes to it; correct?	23	Q. Do you know whether or not you billed more than 20 hours in Walton and Johnson combined?
24	A. Very very very likely.	24	A. I I seem to recall that that's probably
25	Q. Okay.	25	the case. I don't know how many hours exactly.
23	Q. Okuy.	23	the case. I don't know now many nours exactly.
	Page 131		Page 133
1	Page 131 A. It was months ago, so I'm not sure exactly	1	Page 133 Q. Okay. Do you recall receiving over a
1 2		1 2	· ·
	A. It was months ago, so I'm not sure exactly		Q. Okay. Do you recall receiving over a
2 3 4	A. It was months ago, so I'm not sure exactly what what I what I did. Q. It was only two months ago, sir, A. It was only two	2	Q. Okay. Do you recall receiving over a hundred articles in Walton and Johnson from Greenberg Traurig? A. Yes.
2 3 4 5	A. It was months ago, so I'm not sure exactly what what I what I did. Q. It was only two months ago, sir, A. It was only two Q that you wrote this report.	2 3 4 5	Q. Okay. Do you recall receiving over a hundred articles in Walton and Johnson from Greenberg Traurig? A. Yes. Q. Okay. Do you recall receiving hundreds of
2 3 4 5 6	 A. It was months ago, so I'm not sure exactly what what I what I did. Q. It was only two months ago, sir, A. It was only two Q that you wrote this report. A. That I submitted this report, yes. 	2 3 4 5 6	Q. Okay. Do you recall receiving over a hundred articles in Walton and Johnson from Greenberg Traurig? A. Yes. Q. Okay. Do you recall receiving hundreds of pages of internal documents from Greenberg Traurig, 3M
2 3 4 5 6 7	 A. It was months ago, so I'm not sure exactly what what I what I did. Q. It was only two months ago, sir, A. It was only two Q that you wrote this report. A. That I submitted this report, yes. Q. I mean it wasn't years ago, it was only two 	2 3 4 5 6 7	Q. Okay. Do you recall receiving over a hundred articles in Walton and Johnson from Greenberg Traurig? A. Yes. Q. Okay. Do you recall receiving hundreds of pages of internal documents from Greenberg Traurig, 3M documents?
2 3 4 5 6 7 8	A. It was months ago, so I'm not sure exactly what what I what I did. Q. It was only two months ago, sir, A. It was only two Q that you wrote this report. A. That I submitted this report, yes. Q. I mean it wasn't years ago, it was only two months ago.	2 3 4 5 6 7 8	Q. Okay. Do you recall receiving over a hundred articles in Walton and Johnson from Greenberg Traurig? A. Yes. Q. Okay. Do you recall receiving hundreds of pages of internal documents from Greenberg Traurig, 3M documents? A. I think there were 3M documents in the
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Page 134 Page 136 A. No, that's not correct. increases the incidence of periprosthetic joint 1 Q. Okay. So if your opinion is whether or not infections; correct? 2 2 3 A. Yes, I believe that's true. But study -the Bair Hugger is safe for use, wouldn't internal testing be relevant to determine the safety of the study design is not my area of expertise. 5 5 Bair Hugger device? Q. Okay. A. But all right. 6 A. Well intern -- internal testing, to the 6 7 extent that it address -- addresses particles, air 7 Q. Your area of expertise is to just criticize bubbles and other surrogates, are neither my expertise 8 the literature in this case; correct? nor the basis on which I would make a clinical 9 A. My area of expertise is making clinical 10 decisions about caring for my patients. judgment about choosing to use the Bair Hugger or not. 10 Q. So if there were documents that exist that Q. And your clinical decisions are based on 11 11 literature that you have read; correct? 12 indicate that the Bair Hugger increases the bacterial 12 13 load over the surgical site, that would be irrelevant 13 A. Yes. 14 to the safety of the Bair Hugger to you? 14 Q. Okay. MS. LEWIS: Objection, form. 15 A. Well let -- let me --15 A. A, I am not qualif -- qualified to draw the 16 Q. Yes. 16 17 connection between that finding and the risk of using A. Let me, if I may, continue. 17 the Bair -- Bair Hugger, and this is, you know, a very 18 O. Sure. 18 high -- high-volume operation and the rate of surgical 19 A. My clinical decision-making is based on --19 infections with it is amen -- amenable to study. So not only on literature I have read but, when you look 20 20 21 my expectation, what I am looking for and what I've 21 at the list of materials, the systematic analyses that been looking for ever since I first heard allegations 22 groups like ECRI and NICE -- and NICE and others have 23 of its hazard, has been documentation that more pa --23 done, and those groups, because they are thor -more patients have surgical-site infections when Bair thorough, impartial and have advanced methodological 24 24 Huggers are used than when it is not used. I don't 25 skills, the conclusions they draw from their analyses 25 Page 137 Page 135 of the existing science is very persuasive. believe such a thing exists. Q. Okay. Do you know the difference between a Q. Okay. Well let's talk about ECRI then. Are 2 2 surgical-site infection and a periprosthetic joint 3 you aware of the interact -- interactions ECRI had 3 4 infection? 4 with 3M and Arizant regarding this issue? 5 A. I'm -- I'm sorry? 5 A. No. Q. Do you know the difference between a 6 Q. Okay. Do you know that ECRI interviewed --6 superficial -- a surgical-site infection and a 7 interviewed people at 3M and Arizant? 7 periprosthetic joint infection? A. I don't know that. 8 8 9 A. Well surgical-site infection is kind of an 9 Q. Okay. Do you think --10 all-encompassing term, of which periprosthetic joint 10 If you found out that the information infections is one variety. provided by Arizant and 3M was inaccurate to ECRI, 11 11 Q. Are there any allegations that you're aware would that affect your decision? 12 12 of that the Bair Hugger increases the incidence of 13 A. Yeah, I --13 superficial surgical-site infections? 14 You'd have to be more -- more specific about 14 A. I -- I think the -- the action is about 15 15 what the inaccuracies were. Q. Well do you know that one of the goals of 3M peri -- periprosthetic joint -- joint infections. 16 16 Q. Do you know how many bacteria or CFUs are and Arizant was to prevent ECRI from doing any type of 17 17 needed to cause a periprosthetic joint infection? study? 18 18 19 A. No. 19 MS. LEWIS: Objection to the form of the 20 Q. Do you know if it's more or less than a 20 question. 21 superficial surgical-site infection? 21 A. Right. So my understanding of what --Q. It's a simple "yes" or "no." Did you know 22 A. No. 22 23 Q. Are you aware -- strike that. 23 that? You agree with me that a study could be 24 24 A. No. I don't know whether that's true or 25 conducted to determine whether or not the Bair Hugger 25 not.

	Page 138		Page 140
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Okay. So you've never heard that before; correct? A. I have not. Q. Because you haven't looked at the internal documents that 3M has; correct? A. Correct. Q. Okay. If that was true, would that affect your opinions in this case? A. If it were true that 3M tried to stop ECRI from doing a study? Q. Yes. A. Well what they tried to do or didn't try to do isn't really ger germane, it's what ECRI did or didn't do in the end. Q. I understand that. But would it affect your decision with respect to the responses that 3M and Arizant provided to ECRI regarding the safety of the device? A. I'm not I'm not I'm not	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 140 Do you know what a 510(k) clearance is? A. I I I heard the term. Q. Okay. You understand that, with respect to the safety of medical devices or even drugs, that the government relies on information provided by the manufacturer? A. If you say so. I have no experience in the Q. Okay. A 510(k) process. Q. Okay. And you're not going to be providing any opinions on warnings since you don't understand the FDA process; correct? A. Well I'm not going to give an opinion about what the FDA requires or not doesn't require. I can give give an opinion about the warnings that I I see as a user of the of the device if you have questions about that. Q. Well what is your expertise in medical
20 21 22 23 24 25	Would it affect my opinion about 3M and Arizant, is that the question? Q. I think Yeah. A. I don't feel as though I particularly have an opinion about 3M and Arizant's be behavior with	20 21 22 23 24 25	device warnings, if any? I'll withdraw the question. Have you yourself You've never created a medical device; correct? A. Correct. Correct.
	Page 139		Page 141
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	respect to ECRI. As I said, what ECRI did, which is not a study of the the safety of the Bair Hugger in the sense of original investigation Q. They just reviewed the literature. A. It is a systematic re review, something like a meta-analysis of the of the literature. Q. I wouldn't call it a meta-analysis. They just reviewed the literature. A. Okay. Q. Correct? A. Okay. Q. Do you recall any meta-analysis done by ECRI? A. No. A systematic review. Q. Okay. Something that anyone could do; correct? A. Well I I I think the When I refer to the methodological expertise, I think that they bring to bring to the table the ability to critically eval evaluate the scientific validity of the material they're looking at, and I'm not sure that everybody could do could	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. You've never been advised on You've never been consulted on what warnings should be on a medical device; correct? A. Correct. Q. You've never actually written warnings in your entire life; correct? A. Correct. Q. Okay. You you you don't know You've never had any discussions with respect with orthopedic surgeons and whether or not they look unfavorably with respect to particles; correct? A. Correct. Q. You're not an expert in airborne contamination; correct? A. Correct. Q. You're not an expert in infectious disease; correct? A. Correct. Q. You're not an expert in in in forcedair warming; correct? The device itself.
22 23 24 25	do that. So I think the answer is no, not everybody could do what ECRI did. Q. You do understand	22 23 24 25	A. Correct. Q. Okay. Do you even know how much heat comes out of the Bair Hugger?

	Page 142		Page 144
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	A. I can only reflect on having sat next to one next to one for thousands of hours. Q. Do you feel the heat coming out? A. No. Q. You never feel the heat coming out. A. Only when I'm under under the blanket. Q. So what does sitting next to next to them indicate about how much heat is coming out of the Bair Hugger? A. Not very much. Q. Do you think it's warmer warmer Do you think it's warmer of the air coming out is warmer or cooler than the body temperature? A. Are you talking talking about coming out of the blanket? Q. Yes. A. Yes, it's warm it's warmer than the blank than the body temperature. Q. Do you know what temperature? A. It's On high I think it's 42 degrees.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 33	out of the Bair Hugger? A. The heat goes, coming out of the Bair Hugger blanket Q. Where does it go? A. Generally, with an upper body blan blan blanket, the heat emanates at the patient's head. Q. Emanates at the patient's head. A. Yes. Q. So how many holes does the Bair Hugger blanket have? A. How many holes? Q. Yeah. A. It has many many small perforations. Q. Okay. And it comes out at the patient's head. What percentage of the air comes out at the patient's head? A. I don't know what percentage at the patient's head. Q. Do you see the plastic sheet flapping that goes covers the head? A. Occasionally, yes.
23	Q. You think it's 42 degrees?	23	Q. Occasionally?
24 25	A. Yes.Q. Okay. And you've had a thousand hours	24 25	A. Yes. Q. What does "occasionally" mean?
	Page 143		Page 145
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	working on the Bair Hugger working with the Bair Hugger? A. At least. At least. Q. Okay. And you're the one that controls the Bair Hugger device? A. Yes. Q. Do you turn it on and off? A. I do. Q. And you believe it's 42 degrees. A. I think it's high high high, medium and low, but I think the high corresponds to 42 degrees. Q. Okay. And have you ever taken apart a Bair Hugger? A. No. Q. What are plaintiffs' allegations with respect to the mechanism of injury that the Bair Hugger causes? A. There there are multiple: increase increases particles, increases turbulence, increases	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Sometimes I observe it flapping and sometimes it doesn't appear to be flapping. Q. Okay. So what percentage of the time would you see the the plastic sheet that covers the patient's head flapping? A. I have I've never never calculated that percentage. Q. Well can you give me a rough estimate? A. Not really. Q. More than 50 percent of the time? A. I'm not going to give you an estimate. Q. Why not? A. Because I don't I'm not guessing. Q. Okay. So you think you think the majority of the air comes out at the patient's neck and head. A. The the upper upper body, yes. Q. Okay. So A. The rest of the blanket is tightly secured,
21 22 23 24 25	temperature in the vicinity of the of the of the wound, disrupts laminar laminar flow. You know, those those are the ones that immediately come to mind. Q. Where do you think the heat goes that comes	21 22 23 24 25	so that's the path of least resistance. Q. Okay. And why do you think it's tightly secured? A. To gain maxi maximum benefit from the use of the blanket.

Page 146 Page 148 Q. You don't -- you don't think any air could warm blankets compared to forced-air warming? 1 pass down the arm --A. I'm sorry. Say again. 2 2 3 A. Of course, of course it can. 3 Q. What -- what --4 Q. Okay. In a colorectal surgery, if a patient was 5 A. But it is -- the --5 just using warm blankets, like heated blankets, as compared to forced-air warming, would there be a 6 The area around the head -- head and neck is 6 7 more loosely applied than it is around the arms and 7 reduction in surgical-site infections, if you know? does not have the -- all the surgical drapes on top of 8 A. Well what I want to say is that warm it in the same way that the arms do, so whatever air 9 blankets are less effective in restoring core is emanating is most often felt there. 10 10 temperature than active warming, and restoring core Q. Okay. What basis do you have, scientific temperature reduces the rate of -- of infection. 11 11 basis, that most of the air comes out at the head and 12 12 Q. Would you agree with me that warming 13 neck? 13 blank -- warm blankets are more effective than cooling 14 A. I have, as I said, thousands of hours of 14 a patient? A. I don't know. 15 using the device. 15 Q. You don't know? Q. Yeah. And you believe that the top 16 16 temperature is 42 degrees; right? A. I don't know. 17 17 Q. So if a patient went from 36 degrees to 35.5 18 A. Yes. 18 degrees, do you know what the effects would be on Q. Okay. And you also believe that your 19 19 infection rates in your hospital are .6 percent; surgical-site infections in colorectal surgery? 20 20 21 correct? 21 A. To -- to quantify that change? 22 A. That's what I was told. 22 Q. Huh? 23 Q. Okay. But that's not correct; is it? 23 A. To quantify -- to quantify the impact of MS. LEWIS: Objection to the form of the that change in temperature, is that what you're 24 24 25 25 question. asking? Page 149 Page 147 Q. If the patient is 35.5 degrees, is that A. I am not sure of the basis of the statistics 1 going to increase the incidence of surgical-site that you've -- you've given me, so I don't know which 2 3 3 infections? one is correct. 4 Q. Well you've heard of Hospital Compare; 4 A. As compared to normothermia. 5 5 correct? Q. As compared to 36 degrees. If you know. A. I have heard of Hospital Compare. 6 A. In -- in theory, but I don't -- I don't 6 7 Q. And that's based on reporting from the 7 know. hospitals; correct? 8 8 Q. Well could we --9 A. Presumably, yes. 9 Well you don't like theory because there --10 Q. Okay. The fact that Andrea Kurz cooled her 10 there's a theor -- there's a theoretical risk patients during the 1996 study, does that affect your according to the International Concensus that Bair 11 11 opinion of that study? Hugger increases the risks of infections; correct? 12 12 MS. LEWIS: Objection to form. The control group, that she cooled the 13 13 14 control group. 14 Q. So you disregard that theory, so let's not talk about theories. Let's talk about facts and A. No. I think her study is important. 15 15 Q. Okay. So the mere fact that the control was 16 16 actually cooled, which is not done in the real world, 17 17 A. Okay. So I don't -- I don't -- I don't know okay, has no effect on the effects of the statistics 18 18 what the incremental change in infection risk from 19 produced in that paper? 19 35.5 to 36 is. 20 A. I think the statistics are the statistics. 20 Q. If any. 21 Q. Yes. A patient that's cooled and a patient 21 A. If any. Q. Okay. What about 35 degrees compared to 36 22 that's warmed; correct? 22 23 A. Right. 23 degrees Celsius? Q. Okay. What -- what's the -- what's the A. Well the only thing I would -- I -- I would 24 24

say, that hypo -- hypothermia increases the risk of

25

25

infection-rate drop, if any, if a patient is placed in

Page 150 Page 152 infection and other periprosthetic compli -identified. complications, and I don't know that I've seen that it 2 2 Q. Okay. And they're relying on Kurz, Melling 3 is, so to speak, dose-dependent, and -- and that is, and -is the relationship between temperature and infection 4 A. Well they're -- they're -- they're look --5 risk linear or have some other relationship. I don't 5 they're looking at McGovern and Legg and everybody who 6 know. 6 has published on this. Right? 7 7 Q. Well here -- here's the unfortunate thing, Q. Well with respect to surgical-site sir. Okay? You've been designated an expert in this 8 infections, you're relying on the Kurz study; correct? 8 For perioperative warming. case as to maintaining normothermia; correct? 10 A. I -- that's why --10 A. I am relying on the Kurz study and oth --Q. Okay. 11 and others. 11 A. That's why I'm here. 12 Q. What others? 12 13 A. Mell -- Melling, Scott. So there are 13 Q. So you can't rely on other groups that have number -- a number of studies, more recent ones, that 14 done reviews --14 seem to come to the same conclusions as -- as Kurz did A. No, I -- I disagree with that. I certainly 15 15 16 16 in '96. can. Q. So you're talking about Melling and Scott; 17 O. Okay. So you're going to rely on -- on --17 on other people, so I could just read what they say 18 correct? 18 and that's what you're going to say. And we're talking about wound infections 19 19 A. To a -- to a degree. 20 here; right? 20 Q. Okay. 21 A. Correct. 21 A. They have very -- they have --22 Q. Okay. So Melling and Scott. Anything --22 23 And Kurz; correct? 23 They are very persuasive in my decision-24 24 A. Yes. 25 Q. What else, sitting here today? 25 Q. Okay. So sitting here today, besides Kurz, Page 151 Page 153 Melling, Scott and -- and Frisch, are you aware of any 1 A. We talked a little bit earl -- earlier. scientific literature that's not a review that again -- again I need to look at the statistics in Frisch, but there was a diff -- a difference in the discusses the -- the relationship between maintaining 3 4 frequency of infections in those patients. 4 normothermia and surgical-site infection? 5 Q. Well you're --5 A. That discusses --You hold yourself out as an expert in 6 Well yes. Mc -- McGovern purports to do --6 maintaining normothermia; correct? 7 7 to do that. A. I hold myself out as a -- yeah, somebody who 8 Q. McGovern? 8 9 has made that a clinical goal. 9 A. He purports to discuss the relationship of 10 Q. That's not my question of making a clinical 10 normothermia and surgical-site infection. Q. No. He discusses the relationship between 11 goal. 11 the mode of maintaining normothermia and 12 A. Yeah. 12 Q. Okay? I -- I make many goals in my life but periprosthetic joint infection. 13 13 I'm not an expert in. Okay? A. Well why -- why are we using Bair -- Bair 14 14 My question is: Do you consider yourself an 15 Hugger if not to maintain normothermia? 15 expert in the risks and benefits of maintaining Q. Well does he talk about the patient --16 normothermia? Does he take any temperature of -- of the 17 17 A. Yes. patient, measurement -- measurements of the 18 18 19 Q. Okay. So you should know the studies that 19 temperature of the patient? you're going to rely upon because you yourself have 20 A. Okay. Fair -- fair enough. He's discussing 20 done no research on the issue; correct? 21 21 the hazards --Q. Yes. 22 A. I have, as I said previously, heavily re --22 A. -- of warming the patient to achieve --23 relied on systematic analyses of groups expert in 23 summarizing the available findings, such as ECRI, achieve the goal of normothermia. Fine. 24 24 Q. I'm talking about --NICE, and the physician consortium and the others I've 25

	Page 154		Page 156
1	A. Okay.	1	A. No, I don't think I am.
2	Q. I'm talking about maintaining	2	Q. Okay. Why don't you look at the
3	normothermia.	3	conclusions, tell me if you agree with this.
4	A. Fine.	4	A. Which one?
5	Q. And so you're going to rely on Kurz,	5	Q. "Even in actively warmed patients,
6	Melling, Scott and Frisch today.	6	hypothermia is routine during the first hour of
7	And feel free to look at Exhibit 2.	7	anesthesia." Do you agree with that statement?
8	A. Yes. Yeah.	8	A. Yes, temperatures drop in the first hour of
9	Yes, I'll I'll qualify Melling in that it	9	anesthesia.
10	is mostly relevant to establish the safe the safety	10	Q. Okay.
11	of Bair Hugger and achieving norm normothermia,	11	(Exhibit 8 was marked for
12	because while many well infections broadly sta	12	identification.)
13	broadly stated were dramatically reduced, there was no	13	BY MR. ASSAAD:
14	difference in the groups with respect to surgical-site	14	Q. Exhibit 8 is titled "Compliance with
15	infect in infections, which says says to me	15	Surgical Care Improvement Project for Body Temperature
16	that sepsis, which probably includes surgical-site	16	Management (SCIP-10) Is Associated with Improved
17	infections in many instances where there was a	17	Clinical Outcomes" by Andrew V. Scott et al. Is this
18	dramatic reduction and all the other clinical outcomes	18	the article you're referring to?
19	were im were improved, so that one is a little	19	A. Yes, it is.
20	different from the others.	20	Q. Okay. Let's turn to page five. Under
21	Q. You're talking about Melling?	21	"Wound infection"
22	A. No, I'm sorry, Scott.	22	That's a surgical-site infection, correct,
23	Q. Scott. Okay.	23	on on Table 4?
24	A. Yeah.	24	A. Yes. Yeah.
25	Q. Are you relying on Scott today, that	25	Q. Do you agree with me that SCIP non-
	Page 155		Page 157
1	Page 155 maintaining normothermia reduces the incidence of	1	Page 157 compliant has a lower infection rate than SCIP
2	maintaining normothermia reduces the incidence of surgical-site infections?	2	·
	maintaining normothermia reduces the incidence of surgical-site infections? A. It reduces the in incidence of infectious	2 3	compliant has a lower infection rate than SCIP compliant? A. Not in a significant way way.
2 3 4	maintaining normothermia reduces the incidence of surgical-site infections? A. It reduces the in incidence of infectious complications of all of any kind.	2 3 4	compliant has a lower infection rate than SCIP compliant? A. Not in a significant way way. Q. That wasn't my question.
2 3 4 5	maintaining normothermia reduces the incidence of surgical-site infections? A. It reduces the in incidence of infectious complications of all of any kind. Q. That wasn't my question, sir.	2 3 4 5	compliant has a lower infection rate than SCIP compliant? A. Not in a significant way way. Q. That wasn't my question. A. Yes.
2 3 4 5 6	maintaining normothermia reduces the incidence of surgical-site infections? A. It reduces the in incidence of infectious complications of all of any kind. Q. That wasn't my question, sir. A. Correct. No difference in surgical	2 3 4 5 6	compliant has a lower infection rate than SCIP compliant? A. Not in a significant way way. Q. That wasn't my question. A. Yes. Q. It's lower; correct?
2 3 4 5 6 7	maintaining normothermia reduces the incidence of surgical-site infections? A. It reduces the in incidence of infectious complications of all of any kind. Q. That wasn't my question, sir. A. Correct. No difference in surgical surgical-site infections to the extent that the study	2 3 4 5 6 7	compliant has a lower infection rate than SCIP compliant? A. Not in a significant way way. Q. That wasn't my question. A. Yes. Q. It's lower; correct? A. The raw the raw numbers are lower.
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Page 158 Page 160 Q. So you believe it's authoritative. that would make that finding relevant but doesn't 1 A. I believe -- I -- it is -discuss the contamination of the surgical wound --2 2 It is there because it influenced my opinion 3 3 wound directly, only the clinical marker of that on the safety of the Bair Hugger. event. 5 Q. Okay. Well it doesn't really talk about the 5 Q. Well it --6 safety of the Bair Hugger, it talks about the efficacy 6 I mean you believe maintaining normothermia 7 of the Bair Hugger. 7 reduces the risks of surgical-site infection; don't A. No. I think the frequency of the 8 you? complications stud -- studied goes directly to the 9 A. Yes. 10 Q. You do. But this study says the opposite question of safety. 10 Q. Is there anything in Scott that discusses with respect to wound infections; correct? 11 11 whether or not the Bair Hugger contaminates the A. No, it says there's no difference. 12 12 13 sterile field through either being contaminated itself 13 Q. Well SCIP non-compliant means either, one, or by disrupting laminar flow? 14 they --14 A. No. That's the beauty of the Scott paper, Well SCIP non-compliant means they didn't 15 15 is that it talks about clinical outcomes and what use any type of maintain -- forced-air warming or 16 16 matters to patients. patient warming. 17 17 Q. Well the beauty is, then, that there's no A. Or didn't achieve the target temperature. 18 18 difference in wound infections between maintaining Q. No. You could still be SCIP compliant as 19 19 normothermia and not maintaining normothermia; 20 20 long as you --21 correct? 21 As long as you're using a forced-air 22 A. Normothermia in this study was maintained --22 warming --23 maintained with the use of the Bair Hugger. There 23 A. Correct. being no difference in wound infections and a dramatic Q. -- device you're SCIP compliant; correct? 24 24 difference in all infections, in addition to the other 25 A. Right, but --25 Page 159 Page 161 complications, tells me that it is a safe -- a safe 1 And if you don't use it and meet the target device and is good practice to -- to use. temperature, you're also SCIP compliant. 2 2 Q. What -- what percentage of patients that 3 Q. Yes. So the ones that they did not --3 have peri -- total knee or total hip actually have --SCIP non-compliant means that you weren't at 4 4 5 get sepsis? 5 the target temperature and you did not use a patient A. I don't know. 6 warming device; correct? 6 Q. Okay. What -- what percentage of patients 7 A. Correct. 7 that have total hip or total knee actually have a 8 Q. Okay. So we could agree, for the SCIP non-compliant, no patient warming device was used. 9 drug-resistant infection? 9 10 A. I did not -- I don't --10 A. Or a patient warming device was used -- was I don't know. 11 used --11 12 Q. Okay. What percentage of patients have some 12 No. I'm sorry. Correct. sort of an ischemic cardiac -- cardiovascular event, 13 Q. I'm correct. 13 of total hip or total knee patients, arthroplasty 14 A. Okay. 14 patients? 15 Q. Right? 15 A. I don't know. A. You are. 16 16 Q. Okay. So we have here on page five 1,240 17 Q. Okay. 17 A. I don't know that they are different -patients that no patient warming device was used on; 18 18 19 different from this diverse group of surgical 19 correct? Correct? 20 patients. 20 A. Correct. 21 Q. You agree with me that this article does not 21 Q. Okay. And then you have the SCIP compliant, talk about whether or not the Bair Hugger contaminates which has 44,000 patients that warming was used; 22 22 the sterile field by its use. 23 23 correct? MS. LEWIS: Objection, form. 24 24 A. Correct. 25 25 A. It dis -- it discusses the out -- outcomes Q. And it was forced-air warming in this case;

	Page 162		Page 164
1		,	
1	correct?	1	Q. Okay. And you believe Melling supports the
2	A. Yes.	2	safety of the Bair Hugger perioperatively.
3	Q. Now since you believe that forced-air	3	A. Well the Bair in this
4	warming or patient warming reduces the incidence of	4	In this case, this is about hypother
5	surgical-site infection, why is there no difference	5	hypothermia and the frequency of infections in
6	for wound infections?	6	clean in clean surgery. There were two modalities
8	If you know. A. Well I don't I don't know, I don't know,	8	used, neither in the operating room, but the patient's temper temperatures or the surgical-field
9	but the the size of the two two groups may	9	temperature temperatures in some of the cases was
10	produce a statistical effect that produces this. But	10	managed with local warming or body body warming
11	as I said, this informs my opinion, because if	11	perioperatively.
12	forced-air warming were dangerous, I would expect to	12	Q. You understand that Melling is is
13	see the SCIP compliant group have a substantially	13	preoperative warming.
14	higher rate of wound infection and other and other	14	A. Yes.
15	infectious complications than the group in which it	15	Q. Okay. When
16	wasn't used,	16	A. And when you said when you said
17	Q. Did you ever think	17	"perioperative warming," in my mind that includes
18	A and that is not the case.	18	preoperative.
19	Q. Did you ever think of this possibility, sir,	19	Q. Okay.
20	that maintaining normothermia reduces the incidence of	20	A. But the point here is the effect of warming.
21	wound infection but it's been offset because of the	21	Q. You agree with me that prewarming lasts for
22	risk of the Bair Hugger and that's why you get equal	22	about three hours based on the science.
23	numbers? Isn't that isn't that a possibility?	23	A. Yeah. I don't I don't know about that,
24	A. Well if this were the on were the only	24	but these patients
25	study in existence addressing this and the others	25	Q. Okay.
	D 162		
	Page 163		Page 165
1	didn't didn't exist, that would might be an	1	Page 165 A. The warmed patients were not surprisingly
1 2		1 2	A. The warmed patients were not surprisingly warmer.
	didn't didn't exist, that would might be an attractive theory to explain the result. Q. And you need further research; correct?		A. The warmed patients were not surprisingly warmer. Q. Melling wasn't
2 3 4	didn't didn't exist, that would might be an attractive theory to explain the result. Q. And you need further research; correct? A. Well I have several several other studies	2 3 4	A. The warmed patients were not surprisingly warmer. Q. Melling wasn't Bair Hugger wasn't used from incision to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	didn't didn't exist, that would might be an attractive theory to explain the result. Q. And you need further research; correct? A. Well I have several several other studies that show a reduction in infections. Q. Okay. But with respect to Sun, that if that that's a possibility A. We're talking about Scott; right? Q. Or Scott. That's a study that you would maybe require further research to determine whether or not the Bair Hugger is increasing the infection rate but at the same time reducing the wound infection rate so you get a non-statistically significant between use and non-use. It's a possibility; correct? A. I I suppose it's a possibility. Q. Okay. So what study do you want to talk about next, Kurz or Melling? A. You're you're asking the questions. Q. Okay. Let's talk about Melling. Is Melling perioperative warming? A. Melling is perioperative warming. Q. Is that what you believe?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. The warmed patients were not surprisingly warmer. Q. Melling wasn't Bair Hugger wasn't used from incision to incision. A. Correct. Q. Okay. So Melling was not used intraoperatively; correct? A. Correct. Q. Okay. So Melling wouldn't indicate whether or not the use of Bair Hugger would contaminate the sterile field because the Bair Hugger wasn't used intraoperatively; correct? A. Correct. Melling speak speaks to the importance of normothermia in reducing the risk of surgical infection. Q. The effect of prewarming on normothermia. A. Norm Q. Okay. A. Normothermia. Q. Okay. Let's talk about Kurz. Do you recall reading any anything in the deposition of Andrea
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	didn't didn't exist, that would might be an attractive theory to explain the result. Q. And you need further research; correct? A. Well I have several several other studies that show a reduction in infections. Q. Okay. But with respect to Sun, that if that that's a possibility A. We're talking about Scott; right? Q. Or Scott. That's a study that you would maybe require further research to determine whether or not the Bair Hugger is increasing the infection rate but at the same time reducing the wound infection rate so you get a non-statistically significant between use and non-use. It's a possibility; correct? A. I I suppose it's a possibility. Q. Okay. So what study do you want to talk about next, Kurz or Melling? A. You're you're asking the questions. Q. Okay. Let's talk about Melling. Is Melling perioperative warming? A. Melling is perioperative warming.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. The warmed patients were not surprisingly warmer. Q. Melling wasn't Bair Hugger wasn't used from incision to incision. A. Correct. Q. Okay. So Melling was not used intraoperatively; correct? A. Correct. Q. Okay. So Melling wouldn't indicate whether or not the use of Bair Hugger would contaminate the sterile field because the Bair Hugger wasn't used intraoperatively; correct? A. Correct. Melling speak speaks to the importance of normothermia in reducing the risk of surgical infection. Q. The effect of prewarming on normothermia. A. Norm Q. Okay. A. Normothermia. Q. Okay. Let's talk about Kurz. Do you recall
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	didn't didn't exist, that would might be an attractive theory to explain the result. Q. And you need further research; correct? A. Well I have several several other studies that show a reduction in infections. Q. Okay. But with respect to Sun, that if that that's a possibility A. We're talking about Scott; right? Q. Or Scott. That's a study that you would maybe require further research to determine whether or not the Bair Hugger is increasing the infection rate but at the same time reducing the wound infection rate so you get a non-statistically significant between use and non-use. It's a possibility; correct? A. I I suppose it's a possibility. Q. Okay. So what study do you want to talk about next, Kurz or Melling? A. You're you're asking the questions. Q. Okay. Let's talk about Melling. Is Melling perioperative warming? A. Melling is perioperative warming. Q. Is that what you believe? A. It's perioperative warming.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. The warmed patients were not surprisingly warmer. Q. Melling wasn't Bair Hugger wasn't used from incision to incision. A. Correct. Q. Okay. So Melling was not used intraoperatively; correct? A. Correct. Q. Okay. So Melling wouldn't indicate whether or not the use of Bair Hugger would contaminate the sterile field because the Bair Hugger wasn't used intraoperatively; correct? A. Correct. Melling speak speaks to the importance of normothermia in reducing the risk of surgical infection. Q. The effect of prewarming on normothermia. A. Norm Q. Okay. A. Normothermia. Q. Okay. Let's talk about Kurz. Do you recall reading any anything in the deposition of Andrea Kurz where she stated that, with let me get the

	Page 166		Page 168
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Dr. Hannenberg? MR. ASSAAD: No. MS. LEWIS: Okay. I just want the record to so reflect. MR. ASSAAD: Next time maybe if you instruct your witnesses to come with information so they can answer questions MS. LEWIS: Since they don't know what question you're going to ask, MR. ASSAAD: That's why they should bring everything. MS. LEWIS: they're supposed to guess? MR. ASSAAD: I mean you go to trial with all the files; don't you? I don't know if you go to trial, but if you do, you should bring all the files. Q. So do you recall when Dr. Kurz indicated that Kurz would not meet current research guidelines and and scientific reliability in in in today's world? MS. LEWIS: Dr. Hannenberg, if you remember, that's fine; if you don't, if you want to see the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	AFTERNOON SESSION BY MR. ASSAAD: Q. Are you ready to continue, doctor? A. Yes, I am. Q. Before I get to the Kurz deposition, we were talking about some of the articles that support your opinion that maintaining normothermia reduces the incidence of infection. You you haven't been provided any internal documents or minutes regarding conversations with Andrea Kurz or Dr. Sessler within 3M; have you? A. I don't believe so. Q. Okay. (Exhibit 10 was marked for identification.) BY MR. ASSAAD: Q. Exhibit 10 is a document provided to the plaintiffs from defendants talking about the Global Patient Warming Advisory meeting on October 18th, 2012. Do you see that as the heading? A. Yes, I do.
22 23 24 25	document THE WITNESS: Seeing the document would be helpful. (Exhibit 9 was marked for	22 23 24 25	Q. And you see that the board members are Dan Sessler, Pedro Barbieri, Andrea Kurz, Claude LaFlamme and Berthold Bein. Do you see that? A. Yes, I do.
	Page 167		Page 169
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	identification.) MR. ASSAAD: Why don't we take a break for lunch and we'll get back to this when we get back. THE REPORTER: Off the record, please. (Recess taken.)	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Q. Do you know those individuals? A. I know Sessler and I've met Kurz; otherwise, no. Q. Okay. And at the bottom you see there's Bates numbers there where there's like numbers 3MBH? A. 3MBH, yes. Q. Okay. I'd like you to turn to page 3MBH01242445. A. 2445. Has a 6 on the top right? Q. Yes. A. Uh-huh. Q. And on the top top it says "Kurz 1996 SSI paper limitations: only 200 patients, mostly superficial infections with few clinical consequences (we should focus on deep tissue organ SSIs), the factor of 3 risk increase is not plausible (30 percent or so is more likely)." Did I read that correctly? A. Yes. Q. Were you aware that most of the infections documented in the 1996 Kurz study in the New England Journal of Medicine dealt with mostly superficial infections with few clinical consequences? MS. LEWIS: Do you have a copy of the Kurz study?

	Page 170		Page 172
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. Well I am aware aware that it didn't involve prosthetic infect infections, but whether it was superficial or deep or deep tissue or organ space, I don't recall. Q. We talked about clinical outcomes A. Yes. Q regarding maintaining normothermia. And that's important, isn't it, clinical outcomes? Correct? A. Yes. Q. And here's a document in which a meeting in which Kurz attended that said most "mostly superficial infections with few clinical consequences" were the infections recorded in the Kurz paper. Does that change your opinion of the the strength of the Kurz paper? A. I think the Kurz paper still is a reli reliable piece of information about the effect of normothermia on surgical in infections. Q. Do you think do you think maintaining normothermia reduces the incidence of infection in colorectal surgeries by a multiplier of three in today's world? A. I have no basis on which to to say	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Okay. A "with few" yeah. Q. And it actually goes on and say "(we should focus on deep tissue organ SSIs)." MS. LEWIS: Objection to the form of the question. Q. That's what it says there; right? A. That's what it says there. Q. Okay. And this was a meeting in which Andrea Kurz was present, and you agree with that. MS. LEWIS: Objection to the form of the question. A. That's what it says. Q. And the reason why you should focus on deep tissue organ SSIs is because those are clinically significant; correct? A. I would say they are more clinically significant. Q. Okay. She goes on, "the factor" or the paper goes on, "the factor of 3 risk increase is not plausible" You have no reason to agree or disagree with that; correct? A. Correct. Q. Okay. The "Melling paper" next line
25	Q. Okay.	25	"seriously flawed: only 420 low risk patients,
	Page 171		Page 173
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A in today's world what the result of such a study would be. Q. I mean you agree that there are infections out there that really have no clinical consequence. A. I I'm I'm not sure about that. I think to the patient infections have clinical consequences. Q. That wasn't my question. There There are infections out there that have no clinical consequences. A. No. Q. You disagree with that? A. I disagree with that. Q. Okay. So there are infections there that could be a superficial wound infection, I put some antibiotics on and I'm fine in a day? A. There could be infections like like that. But among the infect infections identified in in the study, I don't think Kurz was saying that they were all superficial infections. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	infection was not defined, core temperature not recorded(!)" Were you aware of the significant and serious flaws of the Melling paper? A. I think the Melling paper is also infor informative despite despite these comments. Q. Okay. But you would agree with me, especially with the Kurz paper, that Andrea Kurz knows more about her paper and the limitations than you do. A. She does. Q. Okay. Let's go to the deposition of Andrea Kurz. I'd like you to turn to page 179. If you look at page 179 of Andrea Kurz's deposition, which is marked as Exhibit No. 9, line 16: "Question: In today's scientific standards, there is no reliable evidence that supports that maintaining normothermia reduces the incidence of infection. "Answer: That is correct." Do you agree with that statement and answer?
21 22 23 24 25	Q. Right here, "mostly superficial infections" A. Mostly Q "with few clinical consequences." A. "Mostly superficial infections"	21 22 23 24 25	 A. No. Q. Okay. So you disagree with Andrea Kurz. A. Yes. Q. Okay. MS. LEWIS: I'm sorry, tell me what page

Page 174 Page 176 number we are again. A. Which is Exhibit No. 10? 1 Q. The minutes. 2 MR. ASSAAD: 179. 2 3 3 MS. LEWIS: Okay. Thank you. A. I don't believe I was, --4 Q. So Andrea Kurz, who has done more research 4 Q. Okay. 5 than most people in the world on maintaining 5 A. -- no. 6 normothermia and its effects, you, as a person who's 6 Q. Were you ever informed that Dr. Sessler 7 never done research on maintaining normothermia, 7 indicated in 2016 saying that knowing what he knows 8 8 now, that he would have never published the 1996 disagree with Dr. Kurz. 9 A. Yes. Sessler paper with Dr. Kurz? Q. Okay. 10 A. I'm not aware of that statement. 10 A. I disagree with that -- with that statement. Q. Would that affect your opinion with respect 11 11 to the quality of the 1996 study? 12 I'm sure there are many things Dr. Kurz has said that 12 13 I agree with, but with respect to that statement, yes, 13 A. I -- I -- I don't know why he said -- why he 14 I disagree. 14 would say that. Q. You disagree with that statement. Okay. Q. So you're not aware that he's made that 15 15 statement in the past; correct? A. I disagree with that statement. 16 16 Q. And what's your basis to disagree with that A. I am not aware of that. 17 17 O. And if he did make that statement, would it 18 statement? 18 A. Because her research is not the -- the only 19 change your opinion? 19 20 evidence that addresses this -- this question, and 20 A. Again, it would depend why he was saying it, 21 we've already talked about oth -- others and other 21 what he was thinking. 22 more recent research. 22 (Exhibit 11 was marked for 23 Q. Well, with respect to surgical-site 23 identification.) infections, what valid scientific evidence is there 24 BY MR. ASSAAD: 24 that indicates that maintaining normothermia reduces 25 O. What's been marked as Exhibit 11 is an 25 Page 175 Page 177 the incidence of surgical-site infections? e-mail chain with Jay Issa, who I'll let you know is A. Kurz, Melling. an employee of 3M, Dr. Sessler, Mark Morken, another 2 3 Q. Okay. Anything else? 3 employee of 3M, Michelle Stevens, who is a medical A. The -director of 3M infectious disease, Jill Rector and 4 5 No, I would say I would point to those. 5 Andrea Kurz. And I'm --6 Q. Okay. So you disagree with Dr. Kurz's 6 You know who Andrea Kurz is; correct? 7 opinions on her own study that you're citing to 7 A. Yes. support maintaining normothermia reduces the incidence 8 O. Okay. If you look on the second page, it's 9 of infections. 9 an e-mail from Mark Morken to Dan, says, "Our group 10 A. Well I'm not --10 met yesterday to discuss the proposed retrospective So this statement of hers is conditioned by 11 review of SSI in Colorectal surgery protocol and we 11 the phrase "In today's scientific standards," and I have the following questions or clarifications:" 12 12 don't know what she means by -- by that. And I want to go to number three. "The 13 13 Q. Well if you read the deposition --14 14 infection rate in the 1996 study went from 19 percent 15 A. Or that's your -- that's your ques -- that's to 6.6 percent and in the background for this protocol 15 your question. I'm not sure what -- what you mean by the infection rate is 13 percent - why is there such a 16 16 difference from what was achieved in 1996 and current 17 that. 17 Q. And you've had a copy of this deposition; status?" 18 18 And if you go -- look up, it's an e-mail 19 right? 19 20 A. I had a copy of this deposition. 20 from Dr. Dan Sessler to Mark. If you look at number Q. Okay. And you had a chance to read it; three, it states, "Presumably the infection rates 21 21 correct? 22 22 differ because the institutions and definitions differ. Importantly, about half the Clinic cases are 23 A. I did. 23 Q. Okay. And you were never provided a -- a inflammatory bowel disease, a group with a high 24 24 copy of Exhibit No. 10; were you? 25 25 infection rate, where most patients in the 1996 trial

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have colon cancer. The treatment reported in 1996 is
implausibly high (that is, the infection rate probably
wasn't actually as low as in our 100 warmed patients).

Knowing what we do know -- Knowing what we do now
about fragile clinical trials, we would never have
published such a small study."

Since such a small study."

Did I read that correctly?

A. You did.

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Q. Okay. The fact that Dr. Sessler states that, knowing what he knows now about fragile clinical trials, he would have never published such a small study, which was the nineteen six -- 1996 Kurz study, does that change your opinion regarding the strength of the 1996 Kurz study?

15 A. Well it sound -- it sounds as though he is questioning the statistical pow -- power of the 16 study's sample size. To the extent that that may, as 17 his parenthetical comm -- comment suggests, alter the 18 result with respect to the magnitude of the treatment 19 20 effect, it is of -- of some import, but even -- even 21 if the magnitude were substantially less but still substantial, I would say that I would still conclude 23 from the study that warming is beneficial. And of course warming is beneficial not only for its impact 24 on surgical-site infections but a variety of other 25

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- A. You reminded me of that earlier.
- Q. But were you aware of that before today?
- A. When I originally read the paper, I'm sure I was.
- Q. Okay. Well are you guessing, or were you sure that you --
 - A. Well if it was stated in the paper when I originally read it, I -- I'm sure I noticed -- noticed it.
 - Q. How were they cooled?
 - A. The paper has been published more than 20 year -- 20 years ago, so some of the details in fact have es -- have escaped me. But the impor -- the important point is some patients were warmed, some patients were cold. How they got -- got cold is, I think, the point you're address -- addressing. But there was a difference in their outcomes.
 - Q. Do you know how the patients were cooled in the Kurz --
 - A. I don't -- I don't recall. Probably a -- Well I don't want to guess.
- Q. Okay. When was the last time you read the Kurz study?
- A. Prob -- probably when I was constructing the performance measure.

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important outcomes.

Q. Okay. But you'd want to know what statistical reduction it is; correct?

A. Well my first -- first question is sort of "yes" or "no" is it beneficial. Beyond is it beneficial, "yes" -- "yes" or "no," how beneficial is it is of some interest. But with respect to making a judgment about the desirability of treating to prevent normothermia, the first question is by far the more important one, and it sounds as though -- I --

I don't see anything here that questions the direction of the treatment effect, --

Q. Okay.

A. -- only its magnitude.

Q. So the fact that most of the patients in 1996 had colon cancer doesn't affect, you know, the susceptibility of those patients with infection?

- A. Well he -- he suggests, and I believe him, that the baseline infection rates differ according to the indication for the colon -- colon surgery.
- Q. Were you ever showed document Exhibit 11 before today?
- 23 A. No.

Q. Okay. And you are aware that the patients were cooled in the Kurz study; correct?

Q. Okay. So it wasn't 20 years ago.

A. Wasn't 20 years ago, but it was more than a couple years ago.

Q. Well you didn't read it before you submitted your expert report, Exhibit No. 3?

A. I re -- I reviewed it. But the methodology by which the patients were -- were cooled is not an important consideration in judging the significance of the result. Warmer patients did better than cooler patients.

Q. Well to determine whether or not you need to have some sort of patient warming device, don't you think the information of what the control -- control group temperature is to determine whether or not the study is a valid study --

A. Well I'm not -- I'm not doubting whether patients, left unmanaged, become hypothermic. I think that's well established.

19 Q. Well even if they're managed they become 20 hypothermic.

A. Some.

Q. But you agree with me that there's no scientific evidence to determine the level of hypothermic -- hypothermia and outcomes.

A. The res -- res -- results from Kurz and in

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	Dogg 192		Dogg 194
1 2 3 4 5 6 7 8	fact others looked at patients above or below a bench a benchmark for hypothermia, typically 36 degrees or sometimes 35 and a half degrees. Q. That wasn't my question, sir. As we discussed earlier, there's no scientific study that indicates the the level of hypothermia and its effect on outcomes. A. Well I'm not sure what you mean by "the	1 2 3 4 5 6 7 8	what happens below 34.5 degrees Celsius? A. What studies are you referring to? Q. How the body how the body starts controlling the core temperature, and it's very difficult for the body to get below 34 A. Well if there are studies you're referring to, can I can you show them Q. You're the anesthesiologist.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	level of hypothermia." If you're looking at the degree difference in temperature to the percentage of in of infection, that kind of relationship curve I don't think has been established. Q. Okay. A. But patients who are hypothermic, as defined by below depending on the study 36 or 35.5 degrees, are different from patients who are normothermic. Q. Is that how you look at the Kurz study, is below 36 degrees? Did you not look at what the temperatures of the patients were, the control group? A. Well the Q. "Yes" or "no," sir. Did you look at the temperature of the patients? A. Yes. But I can't I don't recall what they	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	A. Yes. Q. Have you heard of those studies or not? A. I'm aware of the body's physiological response to hypo hypothermia. Q. Okay. A. If there are specific studies you're looking for in that connection, you'll have to suggest Q. But you're aware there are studies out there that indicate that at 34.5 degrees on average the body vasoconstricts and holds holds the temperature as best as possible at 34.5. A. No. It is not a not a switch that goes off off at 34.5. For some patients it will happ it will happen at a higher higher temperature. And it's a range. Q. I said on average 34.5 degrees. A. I don't know whether that is an av
	Page 183		Page 185
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 3	 Q. They were 34.5 degrees. A. Okay. Q. Do you know what's significant about 34.5 degrees Celsius? A. What's I'm not sure what you mean by that question. Q. What happens to the body when you get below 34.5 degrees? A. You try to compen compensate for the hypothermia. Q. Yeah. You vasoconstrict; correct? A. You vasoconstrict. Q. Or vasoconstrict. A. Vasoconstrict and and shiver, and there yeah, there are other mechanisms for compensation. Q. Your body likes to hold 34.5 degrees Celsius on average. A. I'm sorry? Q. Your body does not like to get colder than 34.5 degrees. A. Your body does not like to get colder than 35 degrees or 35.5 degrees. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 3	whether that is an average, Q. Okay. A but when you're taking care of a patient in front of you, averages may not be that important. That is Q. Well let me ask you this. A. Yeah. Q. Why is hypothermia considered below 36 degrees? A. It is be because things like surgicalsite infections, cardiovascular morbid morbid morbidity, coagulapathy start to appear at at in that temperature range. Q. Do you know what Dr. Sessler and Dr. Kurz say the reason why it's 36 degrees? A. Why do they say? Q. I'm asking you. A. No, I don't know why they say. Q. Do you think they know more than you? A. Yes. Q. Okay. (Exhibit 12 was marked for identification.)
24 25	Q. But your body has a reaction Are you aware of the studies, by the way, of	24 25	BY MR. ASSAAD: Q. What's been marked as Exhibit 12 is an

Page 186 Page 188 e-mail chain with Al Van Duren, Dr. Sessler, Dr. Kurz, the Kurz paper, not only was -- was it peer-reviewed, 1 it was peer-reviewed by the most rigorous medical 2 and I will just say numerous employees of 3M at the 3 3 journal in the world. 4 Have you seen this before, doctor? 4 Q. And even that medical journal, not -- things 5 A. No. 5 that are old in it are no longer reliable, correct, in 6 Q. Okay. I'd like you to turn to the bottom of 6 the New England Journal of Medicine? 7 page -- your first page. It's an e-mail from Dr. 7 A. Well I would not agree with that blanket 8 Sessler and it has Michelle Stevens, who is the statement. 9 medical director of 3M, as well as Al Van Duren, who Q. Well science advances; doesn't it? 10 A. Correct. But red -- you know, hemoglobin is a -- has an upper-level position at 3M, as well as 10 Gary Hansen. It says, "Hi Folks, still carries oxygen, so there are things that are old 11 11 12 "One of the points Andrea and I tried to 12 that are still reliable. 13 make at the KOL meeting in Washington" --13 Q. Okay. And sometimes you look at things --14 Do you know what "KOL" stands for? 14 And right now I don't know if any doctor 15 A. I don't. 15 cools patients in the operating room during a surgery such as a colorectal surgery or total hip or total Q. Key opinion leaders. 16 16 A. Okav: knee arthroplasty; is that correct? 17 17 Q. -- "is that the evidence for hypothermia-A. That -- that is -- that is correct. 18 18 Q. Okay. Okay. So -related complications mostly does not meet current 19 19 A. That is -research guidelines for reliability and that previous 20 20 21 studies were done with much larger temperature 21 Whether that feature of the study design 22 differences than are currently allowed." 22 affects its reliability is something I am not able to 23 Did I read that correctly? 23 judge. 24 A. Yes. 24 Q. Okay. 25 Q. Do you understand what Dr. Sessler is saying 25 A. I mean there may be ethical considerations Page 189 Page 187 1 here? about thinking about doing that -- doing that today, but whether that goes to the reliability of the stu --2 A. I -- I can in -- infer, but he's not --2 of the study, the fact of the matter is that it is 3 he does not provide a lot of detail about what he 3 means by "current research guidelines for a -- it is an old -- old study and it is today 4 4 5 reliability." 5 probably still the most-frequently-cited piece of Q. Well you understand that we live in a world 6 evidence on this subject, so the scientific community 6 7 where published literature is peer-reviewed; correct? 7 obviously understands its age but still regards what 8 8 it contributes to our knowledge as substantial. A. Correct. 9 Q. And it's peer-reviewed for --9 Q. Okay. Well you know that they're not just 10 Reliability is one of the reasons why it's 10 talking about the Kurz study here. Actually, he says, peer-reviewed; correct? "One of the points Andrea" -- Ms. Andrea Kurz -- "and 11 11 I tried to make at the KOL meeting in Washington" --12 A. Correct. 12 key opinion leaders -- "is that the evidence for Q. And if you have a methodology that's flawed, 13 13 it might not be reliable and it might not stand up to hypothermia-related complications mostly does not meet 14 14 peer review; correct? 15 current research guidelines for reliability and that 15 A. Correct. previous studies were done with a much larger 16 16 Q. Okay. temperature difference than are currently allowed." 17 17

48 (Pages 186 to 189)

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Not talking about the Kurz study, talking about

Did I read that correctly by the way?

Q. Okay. Let's continue. "Others have noted the same thing. See, for example, page 13 of the

current issue of the ASA Newsletter which includes the

following: 'The normothermia measure has the weakest

general evidence. Let's continue.

A. You read that correctly.

A. However --

Q. And reliability is --

I mean I understand you have a --

MS. LEWIS: He said "however."

A. Correct. However, if we are talking about

MS. LEWIS: He hasn't finished his answer.

MR. ASSAAD: He said "correct" so I moved

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on.

	Page 190		Page 192
1	evidence supporting its ability to improve outcomes	1	identification.)
2	and is a complex, non-intuitive measure involving	2	BY MR. ASSAAD:
3	multiple inclusion of inclusion and exclusion	3	Q. Before we get to Exhibit 13, do you know
4	criteria."	4	what research the different type of surgeries that
5	First of all, you were president of the ASA;	5	maintaining normothermia has been the research has
6	correct?	6	been conducted on?
7 8	A. I was.	7 8	Do you understand my question? A. Yes. So Kurz studied it in the context of
9	Q. And what years were you president?A. I was president in 2010.	9	colectomy pa patients;
10	Q. Until how long? It's one year?	10	Q. Okay.
11	A. It's a one-year term.	11	A Melling studied it I think it was
12	Q. Okay. So in two thousand twen	12	most mostly if not all breast breast surgery,
13	You you you subscribe to the ASA	13	Q. Breast and hernia.
14	Newsletter; correct?	14	A breast and hern and hernia; Frisch
15	A. I do.	15	studied it in hip-fracture surgery; and Scott studied
16	Q. Okay. Do you recall reading an article on	16	it in a wide wide variety of surgeries.
17	normothermia that said such a statement?	17	Q. Okay. And Scott showed no difference in
18	A. I don't recall	18	wound infections; correct?
19	Q. Okay.	19	A. No difference in wound infections. A
20	A this this quotation.	20	dramatic reduction in infectious complications and
21	Q. Okay. Third paragraph, "The writing is on	21	other complications overall.
22	the wall. Without new evidence of harm from current	22	Q. But no difference in wound infections;
23	levels of hypothermia, SCIP-10 is unlikely survive	23	correct?
24	into the next version of pay-for-performance	24	A. Correct.
25	measures."	25	Q. Okay. And Frisch, I think it was total hip
	Page 191		Page 193
1	Did I read that correctly?	1	and total knee, and it showed no difference in
2	A. You did.	2	infection rates.
3	Q. Has SCIP-10 survived?	3	A. Well it depends which which which
4	A. SCIP-10 has not sur survived, but I	4	Frisch.
5	Q. So SCIP-10 has not survived; correct?	5	Q. Oh. There's more than one Frisch?
6	A. Has not survived.	6	A. There's more than one Frisch.
7	Q. Okay.	7	Q. Okay. Which one did you consider, the one
8	A. Wait a minute. The reason it has not	8	listed in Exhibit 2?
9	survived has, as far as I know, little to do with the	9	A. Yes.
10	underlying evidence base, it has to do with changes	10	Q. Okay. Exhibit 13 is a copy of a paper
11	in in performance on that measure.	11	titled "Improving Perioperative Temperature
12 13	Q. Well you you weren't on the committee, were you, for SCIP-10, as we discussed earlier?	12 13	Management;" correct? A. Yes.
14	A. Correct.	14	Q. And this was authored by you and Dr.
15	Q. Okay. You're speculating at this point in	15	Sessler; correct?
15		10	·
16		16	A. Correct.
16 17	time.	16 17	A. Correct. O. And we've discussed this previously:
17	time. A. No. No. I am relating to you what I have	17	Q. And we've discussed this previously;
17 18	time. A. No. No. I am relating to you what I have read about the retirement of the SCIP infection	17 18	Q. And we've discussed this previously; correct?
17 18 19	time. A. No. No. I am relating to you what I have read about the retirement of the SCIP infection control measure set, which was on the basis of the	17	Q. And we've discussed this previously; correct? A. Yes.
17 18	time. A. No. No. I am relating to you what I have read about the retirement of the SCIP infection	17 18 19	 Q. And we've discussed this previously; correct? A. Yes. Q. And even though it talks about the randomized outcome trials and benefits of
17 18 19 20 21 22	time. A. No. No. I am relating to you what I have read about the retirement of the SCIP infection control measure set, which was on the basis of the measures being they are called topped out.	17 18 19 20	Q. And we've discussed this previously;correct?A. Yes.Q. And even though it talks about the
17 18 19 20 21 22 23	time. A. No. No. I am relating to you what I have read about the retirement of the SCIP infection control measure set, which was on the basis of the measures being they are called topped out. Q. Simple question, "yes" or "no:" Has SCIP-10 survived since 2012? A. No.	17 18 19 20 21 22 23	 Q. And we've discussed this previously; correct? A. Yes. Q. And even though it talks about the randomized outcome trials and benefits of
17 18 19 20 21 22	time. A. No. No. I am relating to you what I have read about the retirement of the SCIP infection control measure set, which was on the basis of the measures being they are called topped out. Q. Simple question, "yes" or "no:" Has SCIP-10 survived since 2012?	17 18 19 20 21 22	Q. And we've discussed this previously; correct? A. Yes. Q. And even though it talks about the randomized outcome trials and benefits of normothermia, the the majority of this paper deals

Page 194 Page 196 is -- is that, it's practicing medicine; correct? outcomes leading to patient morbidity and mortality 1 A. I have no idea what you mean by that. beyond surgical wound infections, and the inescapable 2 2 3 3 Q. Well I mean things could change over time; conclusion from looking at Scott is that -- is that 4 correct? managing patient temperature with forced-air warming 5 A. Things change over time. 5 benefits the patient. 6 Q. Like you might think this antibiotic is 6 Q. But you can't say that with re -- with 7 good, but then you might say, no, it's actually not respect to total hip and total knee arthroplasties 7 because you don't know, the surgeries that occurred, good, this antibiotic is better; correct? 8 which ones applied to orthopedic surgeries, correct, A. Yes. Q. You mentioned the laminar flow studies, and 10 10 with Scott? at one time they thought laminar was the greatest A. Scott does not iden -- identify which 11 11 orthopedic procedures. 12 thing and now there's a question of whether it's good 12 13 at all; correct? 13 Q. But what we can say for sure in Scott is 14 A. Correct. 14 that with respect to wound infections in orthopedic procedures, there is no difference between SCIP 15 Q. Okay. So even though there are studies that 15 compliant and SCIP non-compliant. talk about how great laminar flow is back in the '70s 16 16 and '80s, now there's newer studies that question A. I don't think Scott broke out wound 17 17 that; correct? infections for separate analy -- for separate 18 18 A. Correct. 19 19 analysis. 20 Q. Okay. And you realize a lot of the studies 20 Q. Okay. Are you familiar with the Clarissa 21 that you cite with respect to maintaining normothermia 21 Tjoakarfa study --22 are from the '90s. 22 A. Does not sound familiar to me. 23 A. Some of them are, yes. 23 Q. -- entitled "Reflective Blankets Are as Effective as Forced Air Warmers in Maintaining Patient 24 Q. Most. 24 25 A. Well I -- I don't -- I don't know whether Normothermia During Hip and Knee Arthroplasty Page 195 Page 197 that's most of them, but yes, some of them are. Surgery?" Q. I mean the Kurz study is '96; correct? 2 2 A. No, I'm not familiar with that. No. 3 A. Yeah. 3 Q. Okay. Do you know why they are not --Do you have an opinion whether or not 4 Q. Okay. 4 reflective blankets are as efficacious as forced-air 5 A. Frisch is 2016. 5 Q. And -- and Frisch shows no difference in 6 warmers in total hip and total knee arthroplasty 6 7 7 infection rates. surgeries? A. Again -- again, that's the one that I asked 8 A. Do I have an opinion? 8 to see the statistical workup on. 9 9 Q. Yes. 10 Q. I don't have it. But --10 A. Yes, I have an opinion about that. A. I'm sorry you don't. Q. What's your opinion? 11 11 Q. -- we agree that Scott, with respect to A. They are not as effective as active warming. 12 12 wound infection, which is the same type of study that 13 Q. What study have you performed to determine 13 Kurz and Melling were looking at, showed no difference 14 14 in wound infections, and that was a 2015 study; 15 15 A. You asked for my opinion, not for the result 16 correct? 16 of a study. 17 A. Correct. 17 Q. Well I'm hoping --I don't want you to guess. Your opinion is 18 Q. Okay. When looking at the same thing --18 19 A. If I may -- if I may --19 based on some sort of fact or science. Do you have Q. -- that Kurz and Melling were looking at, 20 any fact or science to support your opinion that 20 forced-air warming is more effective than reflective 21 wound infections --21 22 MS. LEWIS: You didn't let him finish his 22 blankets? 23 23 A. No, I can't -- I can't -answer. 24 A. No. My point about Scott is that Scott 24 Q. Okay. 25 looks at a whole variety of important clinical out --25 A. -- point to that study.

Page 198 Page 200 Q. You're familiar with the studies comparing non-responsive. 1 1 forced-air warming to the Hot Dog device; are you --2 2 Q. Listen to my question. Are you aware of any 3 3 study that indicates that the Bair Hugger does not are you not? A. I -- I have not -- I -- I have not 4 increase the bacterial load over the surgical site? 5 studied -- studied them. My interest in this has not 5 A. I -- I am not aware of it. 6 been so much about the comparative efficacy but the 6 Q. Okay. Do you know what the Mistral warmer 7 safety of the Bair Hugger, --7 is? 8 8 O. Okav. A. I've heard -- I've heard of it. 9 9 Q. You know it's a forced-air warming device? A. -- and so those are somewhat off point. A. Yes, I know that. Q. Okay. Just so I understand, your opinion is 10 10 Q. You know it's made by Stryker? that since there's no article that you agree with or 11 11 12 you think is credible that the Bair Hugger is unsafe, 12 A. I didn't know that. 13 that it must be safe. 13 Q. Okay. Are you aware that Mistral, which is 14 A. That is in -- in part true, but it is 14 a forced-air warming device, warns the doctors regarding potential airborne contamination by its 15 also -- my opinion is also based on the fact that 15 there is evidence that the risk of infections declines 16 product? with the use of the Bair -- Bair Hugger, and that MS. LEWIS: Objection, form. 17 17 un -- unless I saw a clinical outcome study showing MR. ASSAAD: Basis. 18 18 me -- showing me that the Bair Hugger was unsafe in 19 MS. LEWIS: It mischaracterizes the 19 20 that respect, I would continue to support its use and 20 evidence, it's not a warning, and y'all have talked 21 advocate for its safety. 21 about that in other depositions. 22 Q. Can you --22 MR. ASSAAD: Not a warning? 23 And -- and try to get out for a second 23 MS. LEWIS: No. the -- the fact that you honestly believe that 24 MR. ASSAAD: Okay. 24 maintaining normothermia reduces the risk of 25 A. I'm not aware of the non-warning. 25 Page 199 Page 201 Q. It is a warning. Your counsel is wrong. surgical-site infections. I don't want to talk about 1 that any more. I want to talk about whether or not 2 So -the Bair Hugger contaminates the sterile field or 3 A. I'm not -increases the bacterial load over the sterile field. I -- I -- I have a passing familiarity --4 4 5 Do you understand? 5 Q. Okay. A. -- and recognition of the brand name and A. That's fine. 6 6 Q. Okay. Are you aware of any study that 7 nothing -- know nothing more about Mistral. 7 indicates that the Bair Hugger does not increase the Q. Are you aware that the older models of Bair 8 9 bacterial load over the sterile field? 9 Hugger --10 A. I am aware of --10 Have you ever seen a model 200 series Bair 11 11 So the bacterial load over the sterile --12 sterile field, the particles, the bubbles and the 12 A. I doubt -- I doubt it. I think the models I air tur -- air turbulence are surrogates or -- or 13 use are 500 series plus. 13 proxy -- or proxies for what I am interest --O. And 700 series? 14 14 interested in, which is the risk of harm to the 15 A. That I don't know about. 15 patient, so the problem -- the problem is that that Q. Have you looked at the warning labels on the 16 ev -- evidence is not addressing the key and important 17 17 200 series? question here whereas the clinical studies do. In 18 18 A. No, I don't think I've seen the 200. 19 addition, most of the ones I have looked at, even as a 19 Q. Has counsel showed you those labels -- I'm 20 non-expert on particle sci -- science, et cetera, 20 sorry. have -- raise in my mind serious methodological flaws; 21 Has counsel showed you those labels? namely, the experimental -- the experimental setup 22 22 A. No, I don't believe so. having nothing to do with the clinical setting in 23 23 Q. Okay. Do you understand there was no which we use the Bair Hugger. verification testing on the Bair Hugger? 24 24 A. What does "verification testing" mean? 25 MR. ASSAAD: Move to strike as 25

Page 202 Page 204 Q. I won't go into it because you don't know 1 you warm the patient? 1 2 what it means. 2 A. As long as you warm the patient safe -safely and effectively. 3 3 Going back to your thousand hours sitting next to a Bair Hugger device, is it your testimony Q. I'd like you to turn to page 836, today that you've never felt heat sitting there as 5 "Environment" -- I want you to look under Table 1, a sur -- as a -- as a doctor around the patient coming 6 "Environmental temperature at 1 meter distance to 7 from the Bair Hugger device? 7 warming device (after 30 minutes)," and do you see 8 A. From the generator? where it says 24.4 degrees plus or minus 5.2 degrees 9 Q. From the blanket. for Bair Hugger and 22.6 degrees plus or minus 1.9 A. From the blanket. When I am in close 10 10 degrees for Hot Dog? proximity or my hands are underneath the blanket or I A. Yeah. 11 11 12 lift the head shield, yes, yes, I do, but when I'm 12 Q. Huh? 13 sit -- sitting a foot and a half away from it, no, I 13 A. Yes, I do. 14 don't. 14 Q. Okay. And you see that the OR temperature 15 Q. Would you be surprised if there were studies 15 started at 19.5 degrees -that indicated that the temperature around the A. Uh-huh. Yeah. 16 16 Q. -- and it ended at 19.4? Do you see that? surgical table and the surgeon increased significantly 17 17 more with the Bair Hugger than with the Hot Dog A. Yeah. 18 18 19 19 Q. And around the warming device, at a onedevice? 20 A. I -- I -- I wouldn't be -- I wouldn't be 20 meter distance around it, the temperature raised five 21 surprised, but I don't necessarily attach any 21 degrees. Do you see that? 22 significance to -- to that. 22 A. I -- I see that. 23 Q. Okay. Well if all of the air and heat are 23 Q. And up -- and at some point up -- up over 10 degrees Celsius for the Bair Hugger based on the 24 coming out at the neck, where do you think that heat's 24 25 standard deviation. 25 going to go? Page 205 Page 203 Were you aware of this article, sir? A. It's mixing with the very substantially cool 1 air in the room. 2 A. I said no. 3 3 Q. You think it could change the temperature in Q. Has counsel -- has -- has counsel --4 the room by a few degrees? 4 Would you be surprised if you were provided 5 A. No. 5 this article in the hundreds of articles that you 6 6 Q. Okay. received from --7 (Exhibit 14 was marked for 7 A. It's poss -- it's possible it's --8 identification.) 8 Q. Okay. 9 BY MR. ASSAAD: 9 A. -- it's -- it's in there. 10 Q. Exhibit 14 is a peer-reviewed article titled 10 Q. You just didn't review it before; correct? "Resistive-Polymer Versus Forced-Air Warming: A. As I said and you said your -- yourself, the 11 11 Comparable Efficacy in Orthopedic Patients," and it's point -- the point here is that we want to achieve 12 12 authored by Brandt, among others, including Oguz, Kurz normothermia safely, so my focus in reviewing the 13 13 and Kimberger. articles has been on the safety more than the 14 14 15 Have you seen this article before? 15 efficacy. A. No, I don't have. Q. Would it be --16 16 A. The other point -- the other point I make 17 Q. Okay. Under the conclusion it says, 17 "Resistive-polymer warming performs as efficiently as about this is that if -- if the Bair Hugger serves to 18 18 19 forced-air warming in patients undergoing orthopedic 19 warm the up -- rise -- raise the temperature around 20 surgery." Do you have any disa -- do you have any 20 the patient, is that -- is that bad? 21 disagreement with that conclusion? 21 Q. Do you know if it's bad or not? 22 A. I have no basis to agree or disagree. 22 A. I don't think it's bad. I think we try very 23 Q. Because whether or not you think maintaining 23 hard to warm the area around the patient. I think normothermia is real science or junk science, it operating rooms are -- are too -- too cold. 24 24 doesn't matter which way you warm, correct, as long as 25 Q. Do you know what the effect of heat is

	Page 206		Page 208
1	around the operating room table on the sterility of	1	THE REPORTER: Off the record, please.
1 2	the surgical site?	2	(Recess taken.)
3	"Yes" or "no."	3	BY MR. ASSAAD:
4	A. No.	4	Q. Ready to continue?
5	Q. Okay. Move on then.	5	A. Yes, sir.
6	Do you think the data with respect to	6	Q. So doctor, we talked about the Kurz study,
7	cardiac morbidity and thermoregulation is strong or	7	the Melling study and the Scott study; correct?
8	weak?	8	A. We have.
9	A. It is strong.	9	Q. And the one study that we haven't talked
10	Q. Have you done any research on it?	10	about that you believe is authoritative is Frisch;
11	A. No, I haven't.	11	correct?
12 13	Q. Who has done research on it that you're	12 13	A. I believe Frisch has influenced my opinion
14	aware of? A. The original study we cited in the	14	about the safety of the Bair Hugger Q. Okay.
15	performance measure was was Frank, but I think that	15	A and the and the efficacy of
16	that was one of the endpoints also studied in in	16	normothermia.
17	Scott. Wherever Scott is. Yeah.	17	Q. All right.
18	Q. It's what?	18	(Exhibit 15 was marked for
19	A. It says Scott showed a reduction by 50	19	identification.)
20	percent in the frequency of ischemic cardiovascular	20	BY MR. ASSAAD:
21	events, but the Frank, which is is also an older	21	Q. Is Exhibit 15 the Frisch article you're
22	paper, also studied vascular patients and showed a	22	referring to?
23	lower frequency of morbid cardiovascular events in	23	A. No, it's not.
24	warmed patients.	24	Q. Okay. So you're looking at the one on hip
25	Q. But you don't know what percentage of total	25	fractures, not on hip and knee arthroplasty.
	Page 207		Page 209
1		1	Page 209 A. Correct.
1 2	Page 207 hip or total knee have actually car cardiac events. A. No. No. As I said, I don't	1 2	Ç
	hip or total knee have actually car cardiac events. A. No. No. As I said, I don't Q. Okay.		A. Correct. Q. Would you agree with me that the one dealing with hip and knee arthoplasty are more relevant to
2 3 4	hip or total knee have actually car cardiac events. A. No. No. As I said, I don't Q. Okay. A see that Scott has broken out those	2 3 4	A. Correct. Q. Would you agree with me that the one dealing with hip and knee arthoplasty are more relevant to this case than hip fractures?
2 3 4 5	hip or total knee have actually car cardiac events. A. No. No. As I said, I don't Q. Okay. A see that Scott has broken out those subpopulations.	2 3 4 5	A. Correct. Q. Would you agree with me that the one dealing with hip and knee arthoplasty are more relevant to this case than hip fractures? A. Ever so slightly.
2 3 4 5 6	hip or total knee have actually car cardiac events. A. No. No. As I said, I don't Q. Okay. A see that Scott has broken out those subpopulations. Q. Do you recall what Dr. Kurz or Dr. Sessler	2 3 4 5 6	A. Correct. Q. Would you agree with me that the one dealing with hip and knee arthoplasty are more relevant to this case than hip fractures? A. Ever so slightly. Q. What do you mean "ever so slightly?"
2 3 4 5 6 7	hip or total knee have actually car cardiac events. A. No. No. As I said, I don't Q. Okay. A see that Scott has broken out those subpopulations. Q. Do you recall what Dr. Kurz or Dr. Sessler said in their depositions regarding the effect of	2 3 4 5 6 7	A. Correct. Q. Would you agree with me that the one dealing with hip and knee arthoplasty are more relevant to this case than hip fractures? A. Ever so slightly. Q. What do you mean "ever so slightly?" A. Because the nature of hip-fra hip-
2 3 4 5 6 7 8	hip or total knee have actually car cardiac events. A. No. No. As I said, I don't Q. Okay. A see that Scott has broken out those subpopulations. Q. Do you recall what Dr. Kurz or Dr. Sessler said in their depositions regarding the effect of maintaining normothermia on cardiac events?	2 3 4 5 6 7 8	A. Correct. Q. Would you agree with me that the one dealing with hip and knee arthoplasty are more relevant to this case than hip fractures? A. Ever so slightly. Q. What do you mean "ever so slightly?" A. Because the nature of hip-fra hip-fracture surgery is very similar to hip arthro
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	Page 210		Page 212
1	A. No, I don't believe I have.	1	there; correct?
2	Q. You have?	2	A. Yes.
3	A. No, I don't believe so.	3	Q. Okay. And this is dealing with the same
4	Q. You haven't. Okay.	4	type of surgeries that are involved in this multi-
5	I'd like you to go to page 60 of the	5	district litigation.
6	article. And this was published in 2016. Are you	6	A. Yes, it is.
7	aware of that?	7	Q. So based on this article and this raw
8	A. It says 2017, but if you say it was	8	data this data, you would agree with me that
9	published in 2016	9	whether a patient is normothermic or hypothermic
10	Q. Oh, I'm sorry, you're right, 2017. It	10	doesn't have an effect on total knee and total hip
11	was it was submitted in 2016.	11	arthroplasties for an MI, a stroke, a DVT DVT, a
12	A. Okay.	12	PE, a DSSI, an SSI, an NSSI and an LOS, which is
13	Q. Do you see Table 3 where it indicates	13	length of surgery.
14	"Univariate Analysis of Complications Associated With	14	A. I would agree that this study fails to
15	Hypothermia?"	15	demonstrate that difference.
16	A. Yes, I do.	16	Q. Or demonstrates that there is no difference.
17	Q. And you see it says at the top TJA, and then	17	A. Correct.
18	halfway down a little more than halfway has TKA, do	18	Q. Okay. And this is 2017; correct?
19	you see that?	19	A. Correct.
20	A. Yes.	20	Q. You were not provided this article by the
21	Q. And then if you go to the second other	21	defendant; were you?
22	column it has THA on the right-hand side.	22	A. I don't
23	A. Yes.	23	It does not look familiar to me.
24	Q. Okay. And also has p-values.	24	Q. Okay. And this is one year
25	A. Yeah. So I infer from that that TJA is the	25	This is an article that's dated one year
	Page 211		Page 213
1	combined results from TKA and THA. Is that what	1	after the Frisch article that you cited; correct?
2	Q. Yes.	2	A. The Frisch article I cited was 2016.
3	A what they've done?	3	Q. Okay. And it's the same author.
4	Q. Okay. And TJA stands for total joint	4	A. I believe it is.
5	arthroplasty. You agree?	5	Q. Okay.
6	A. Usually it does, yes.	6	A. N.B. Frisch, yeah.
7 8	Q. And TKA is total knee arthroplasty?A. Yes, that's	7	Q. I'd like you to go to Exhibit 7, which is
			•
		8	the Sun study.
9	Q. And THA is total hip arthroplasty.	9	the Sun study. A. Sun, yes.
9 10	Q. And THA is total hip arthroplasty.A. That's fine.	9 10	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed
9 10 11	Q. And THA is total hip arthroplasty.A. That's fine.Q. And they talk about the normothermic and	9 10 11	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology?
9 10 11 12	Q. And THA is total hip arthroplasty.A. That's fine.Q. And they talk about the normothermic and hypothermic patients, do you see that?	9 10 11 12	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am.
9 10 11 12 13	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. 	9 10 11 12 13	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it?
9 10 11 12 13 14	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single 	9 10 11 12 13 14	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do.
9 10 11 12 13	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single comparison for MI, which is the mydocardial mydo 	9 10 11 12 13	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do.
9 10 11 12 13 14 15	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single 	9 10 11 12 13 14 15	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do. Q. Do you recall ever seeing this article?
9 10 11 12 13 14 15 16	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single comparison for MI, which is the mydocardial mydo myocardial infarction, 	9 10 11 12 13 14 15 16	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do. Q. Do you recall ever seeing this article? A. No.
9 10 11 12 13 14 15 16 17	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single comparison for MI, which is the mydocardial mydo myocardial infarction, A. Infarction yes. 	9 10 11 12 13 14 15 16 17	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do. Q. Do you recall ever seeing this article? A. No. Q. Do you keep up to date with the literature
9 10 11 12 13 14 15 16 17	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single comparison for MI, which is the mydocardial mydo myocardial infarction, A. Infarction yes. Q stroke, DVT, PE, DSSI, which is deep 	9 10 11 12 13 14 15 16 17	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do. Q. Do you recall ever seeing this article? A. No. Q. Do you keep up to date with the literature in intraoperative core temperature management?
9 10 11 12 13 14 15 16 17 18	 Q. And THA is total hip arthroplasty. A. That's fine. Q. And they talk about the normothermic and hypothermic patients, do you see that? A. Yes. Q. Okay. Do you see that every single comparison for MI, which is the mydocardial mydo myocardial infarction, A. Infarction yes. Q stroke, DVT, PE, DSSI, which is deep surgical-site infection, SSI, which is superficial 	9 10 11 12 13 14 15 16 17 18 19 20 21	the Sun study. A. Sun, yes. Q. This was Anesthesiology, a peer-reviewed ar journal. Are you familiar with Anesthesiology? A. Yes, I am. Q. Do you subscribe to it? A. Yes, I do. Q. Do you recall ever seeing this article? A. No. Q. Do you keep up to date with the literature in intraoperative core temperature management? A. No more so than other clinical topics.
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Page 214 Page 216 you start anesthesia. Q. And you've never seen this document before? 1 1 A. I missed this document. 2 2 A. Well I think we agreed a moment ago that 3 3 O. And this was on the -- I think -prewarming by whatever mech -- mechanism would I believe this was on the cover of mitigate that to a degree. 5 Anesthesiology in February of 2015. You do not recall 5 Q. But you still see a drop. 6 seeing it? 6 A. You still see a drop. 7 7 Q. Okay. It's just a slower slope or lower A. I don't recall seeing this. 8 slope than without prewarming. 8 Q. And you -- you left the practice of medicine earlier this year; correct? 9 A. Correct. 10 A. Correct. Q. Okay. 10 Q. Why did you leave? 11 11 A. And I -- I believe that early application of A. Other demands on my time. 12 12 active warming in the operating room probably changes Q. Such as? 13 13 that slope also. 14 A. Such as -- such as foun -- foundation work 14 Q. What other topics besides normothermia did and work for The Specialty Society and work at Harvard you -- did you discuss with Dr. Sessler? What other 15 15 School of Public Health. type of work? 16 16 A. Well I just said -- I just said --Q. Would you agree with me that prewarming has 17 17 more of an effect on maintaining normothermia for the O. Besides that. 18 18 first hour of anesthesia time than does intraoperative A. None that I can think of. 19 19 20 warming? 20 Q. I mean do you --21 A. I would -- I would agree with that. 21 Are you friends with Dr. Sessler, or was it 22 22 Q. Turn to page 284. Have you seen Table 4 mostly just a professional --23 before or understand what -- what it's saying? 23 A. Mostly a professional relationship. A. I have not seen Table 4 --Q. Now you agree with me that, as we discussed, 24 24 25 Q. Do you know what --25 there could be a study to determine whether or not Page 217 Page 215 A. -- previously. Bair Hugger increases the risk of periprosthetic joint 1 I'm sorry? infections in total hip and total knee arthroplasty; 2 3 3 Q. Do you know what a degree-hour is? Have you correct? heard that term in anesthesiology? 4 4 A. There could be a study. 5 A. No, but I --5 Q. There could be; correct? No, I haven't. Interesting. I have not --6 A. There could be a study. 6 7 I have not seen data on this subject presented in this Q. Right. And are you aware that Dr. Sessler 7 recommended on numerous occasions to 3M to perform 8 8 way before. 9 Q. Have you e-mailed with Dr. Sessler in the 9 such a study? 10 past? 10 A. I'm not aware. Q. Do you think a company has an obligation, if 11 A. Yes, I'm sure I have. 11 Q. I assume those were on topics relating to there is a -- someone such as Dr. Sessler that's 12 12 requesting such a study who is a leader in -- in 13 normothermia? 13 14 A. In -- in -- indirectly. Our committee work, 14 maintaining normothermia, that they should take that our author -- authorship, and our collaboration on 15 request seriously? 15 A. I -- I don't know what a large multinational 16 16 corporation's obligations are. 17 Q. You do understand that, based on this Sun 17 article, it confirms the hypothesis that when a body Q. Do you think they have an obligation to the 18 18 19 goes under anesthesia, the -- the -- there's 19 safety of the public? A. To do -- to do studies as recommended by 20 redistribution of heat to the extremities. 20 parties external to the corporation? 21 A. I believe that that's true. Whether this 21 Q. No. To have a product that's safe for --22 paper con -- confirms that or not I'm not able to say, 22 for the public. 23 not having seen it before. 23 Q. And that's why no matter what type of A. Yes, I think they should have products that 24 24 are -- that are safe. 25 warming is used, you see a drop in temperature once 25

Page 218 Page 220 Q. You drive a car; correct? sure numerous other sources. 1 1 2 A. Yes. 2 Q. Okay. So the ones funded by 3M you give 3 3 Q. You -- you expect that the car manufacturer credibility to, the ones that were funded by Hot Dog does what it can to ensure that the -- that the car is you don't give credibility to. 5 a safe car, especially if it gets in an accident; 5 A. No, I didn't say that at -- at all. 6 correct? 6 Q. Okay. 7 7 A. That's a pretty bald misrepresentation of A. Yes. 8 8 O. And you probably look into the safety of a what I've been saying. vehicle in determining whether or not you want to buy Q. But with respect to, for example, your -the vehicle: correct? 10 your car, do you -- do you think the manufacturer has 10 A. Yes. a duty to perform studies to determine whether or not 11 11 12 Q. And there's actually safety tests done on 12 the car is safe? 13 many vehicles, and you make a determination on -- for 13 A. I -- I think the man -- manufact -- I think 14 you yourself whether or not to purchase a certain 14 the manufact -- manufacturer has to supply information. Whether they do studies or not, I'm not 15 vehicle or not; correct? 15 sure. But I think all of us rely on an impartial A. Right. And the analogy to what we're 16 16 talking about is that I don't do the experiments on source that is going to reliably be objective, and 17 17 the safety of the cars myself, I rely on groups like that's why I look at NICE and ECRI and others, and 18 18 the National Transportation Safety Board and oth --19 that's why you look at the National Transportation 19 and others, just as in this case I rely on groups like 20 20 Safety Board and similar groups and you and I -- you 21 ECRI and the others I've mentioned previously to 21 and I don't necessarily take Chevrolet's claim that 22 perform -- to perform that assessment. 22 they make the safest car around at face value. 23 Q. So your --23 Q. You rely on the manufacturers of all the 24 products you buy that you use, that they have done 24 So my understanding is that you rely on third-party organizations to determine the safety of a their due diligence to make sure that the product is 25 Page 219 Page 221 product and you don't rely on the manufacturer. safe, or at least to warn you about it if it's not. A. I rely on third parties evaluating the 2 2 A. Yes. available science, coupled with my own clinical 3 3 Q. Okay. There's a duty among a manufacturer to provide safe products, and if there's a risk, to experience. And when I develop questions about 4 safety, I will look at -- myself at individual studies warn you of the risk. Do you understand that? 5 5 MS. LEWIS: Objection to the form of the as we've been discussing all -- all day. But as we 6 7 have also noted, I don't do every experiment that 7 question. pops -- pops into my head, nor do I expect the 8 A. Well -manufacturer to do the studies that I prescribe or 9 Yes. 10 recomm -- recommend. 10 Q. Like, for example, a typical iron usually O. What studies did ECRI do? has that little sticker on it that says keep out of 11 11 A. ECRI -water, you know, when it's plugged in because it could 12 12 cause an electrocution. You -- you know what I'm Q. What studies did ECRI do --13 13 A. ECRI --14 14 talking about; right? A. Yeah. 15 Q. -- for Bair Hugger? 15 Q. Okay. Now they make the iron safe and it's A. I'm not aware that ECRI did any studies for 16 16 not going to explode, but they warn you of the risk of 17 Bair Hugger. 17 Q. They relied on studies that -- some of which getting it wet when it's plugged in; correct? 18 18 19 were funded by 3M or Arizant. 19 A. Correct. 20 A. They may -- they may well have. 20 Q. Okay. 21 O. Okav. 21 A. So they warn you about the risk of 22 A. They did a systematic analysis of what has 22 getting -- of getting it wet. I don't think they warn 23 been published, and I have reason to believe that some 23 you about the risk of dropping it on your -- on your of the published literature has been funded by 3M, head. So I think that what we expect are warnings 24 24 25 some has been funded by Hot Dog -- Hot Dog, and I'm that are pertinent to reasonably corr -- correct and

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appropriate use of the device. Q. And the appropriate use of a device is using the device as it was intended to; correct? A. Yes. Q. And even when you use devices the way they are intended to be used, there still exists warnings for certain devices; correct? A. Right. Q. Okay. A. Those are the ones Those are the warnings that I think are pertinent. Q. Okay. Now you are familiar with the 700 series Bair Hugger; correct? A. I believe my experience has been with 500 the 505 and 5 575. I'm not sure whether we had the other model the other model in clinical use. Q. Is the one you use white or blue? A. They're they're white. Q. Okay. So you've never used a 750. A. Probably not in not in the operating room. I think they may be 750s in recovery. Q. When's the last time you used the 505? A. Probably the last week in December of 2016.	Q. What's the logistical barrier? A. The patient patients in the are in the pre-op area for a brief period of time, they're in being moved from from place to place, and places that have done it have anecdotally report reported that people in the vicinity are uncomfortable with the heat. Q. When you say "people in the vicinity," you're talking about hospital staff? A. It's usually mostly fam family mem members who are sitting by the patient's side. Q. What about using VitaHEAT? A. I don't know about VitaHEAT. Q. It's actually battery powered. You could actually stick it in the mattress and roll it wherever it goes. A. Okay. Looks like you could be a salesman for VitaHEAT. Q. Well I'm wondering if pre-op prewarming is so important, so beneficial, how come someone such as yourself that looks for pay-for-performance measures hasn't investigated the options you could use for prewarming. A. Well my experience with intraoperative
25 Q. Do you know the 505 has been discontinued	25 warming is that the frequency of reaching target
Page 223	Page 225
A. I I didn't I didn't know that. I know we have newer ones. Q. Which are blue? A. No. We have white all In the operating room we have all white Bair Huggers. Q. Okay. So you've never seen a 750. A. Well is the 7 The 750 is a blue model Bair Hugger? Q. Yes. A. I probably have seen it, but I don't think we have them in the operating rooms. They would be in other other areas. Q. What about Bair Paws, have you seen Bair Paws? A. Only advertising for Bair Bair Paws. Q. You don't think prewarming is important? A. I think prewarming is valuable. Q. Do you have prewarming in your hospital? A. No. Q. If it's valuable because of the patient, why don't you do it? A. Because there are logistical barr barriers to to doing it.	temperature is extraordinarily high, so that I am achieving what I want to achieve achieve without pre prewarming. Q. Your patients are different than everyone else's patients around the world? A. I don't know what you mean by that. Q. Well everyone becomes hypothermic. There's a huge I mean the Sun article says that even in intraoperative warming, that most patients become hypothermic in the first hour. A. I'm not talk I'm talking about talking about reaching a target a target temperature by the end of by the end of surgery or on arrival in the recovery room, which is what the measure prescribes. Q. Okay. So do you know whether or not becoming hypothermic during the intraoperative period increases the risk of infection, or is it becoming hypothermic while you're in the PACU increases the risk of surgical-site infection? MS. LEWIS: Object to the form. A. Right. So I think that becoming hypothermic at the time at at which you are wanting your physiologic defenses to be optimal is is

	Page 226		Page 228
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	deleterious. You are corr correct that most patients become hypo hypothermic. If you are warming them, they are transiently so, and they reach target temperature, you know, within within an hour, if that if that, of applying the forced-air warming. Q. All right. Okay. Is it your opinion that if a patient develops a periprosthetic joint infection 30 days out of from the date of the operation, that if he was hypothermic during the in during the procedure, that could be a significant or be a risk factor for him developing a PJI? A. Well I think hypo hypothermia is a risk factor for developing P PJI. Admittedly, as we've discussed repeat repeatedly based on ex physiology and extrapolation from other other settings, if there is a critical moment at which the temperature matt matters, I'm unable unable to say. Q. Go to your report, Exhibit 3. On page two, top paragraph, you write, "The use of forced air warming has provided patient comfort and reduced postoperative shivering, a side effect that is very unpleasant for patients" Did I read that correctly?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	A. I I have ev evidence. If what you're looking for is a specific study addressing those complications in total joint arthroplasty patients, I would say no, Q. Okay. A but the evidence qualifies in my mind to a level substantiating that clinical practice. Q. Are you aware that Andrea Kurz informed 3M that her 1996 study only applied to colorectal surgeries and not to extrapolate into other surgeries? A. I'm not Q. Are you aware of that? A. I am not aware of what she has said to 3M. Q. Okay. You agree with me that a colorectal surgery is way different than a total knee arthroplasty. A. It is different, it is different, but it has many characteristics in common with other kinds of surgery. Q. Let me guess. They use a scalpel, correct, in both? Let's talk about the length of surgery. Is the length different between the two surgeries? A. Marginally, perhaps. Q. Marginally?
	·		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. Which is a more unpleasant side effect, a periprosthetic joint infection or shivering? A. A periprosthetic joint infection. Q. Okay. And you go on, "in addition to reducing the risk of cardiovascular and bleeding complications." Did I read that correctly? A. Yes. Q. But you have no evidence sitting here today that there is a reduction in cardiovascular risk with patients that undergo total hip or total knee arthroplasty; correct? A. I have no reason to believe that the risk of those complications would be substantially different	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. Did you look at the length of time for surgery for the 1996 colorectal study? They were two to four hours. Are you aware of that? A. And so what what were What was the length of total joint arthroplasty Q. On average an hour. A at that time Q. On average an hour. A in 1996? Q. Well we're talking about 2017 today; aren't we? A. Right. So what's the length of colon
16 17 18 19 20 21 22	in joint arthroplasty patients from others. Q. I understand you can believe in anything you want, sir. My question is: You have no evidence to support that belief; correct? A. I have no evidence to support what what what belief?	16 17 18 19 20 21	colon surgery in 2017? Q. I don't know what it is. A. It's apples, and let's talk apples and apples. Q. Okay. You want to talk apples and apples, sir? Let's talk apples and apples. You want to apply a 1996 study, which is oranges, to a to a 2017

Page 230 Page 232 against, you can't compare? absence of any credible evidence of a reason not to A. No. But the -apply it more broadly, I believe it is sound practice. 2 2 MS. LEWIS: Objection, argumentative. 3 3 Q. That's not evidence-based medicine; is it? 4 A. -- the -- the physiology, 4 A. We don't have evidence for every clinical 5 number one, has not changed since 1996, and the 5 decision we make. 6 physiology of the microcirculation and host defenses 6 Q. Okay. I get that. So there's no evidence 7 is not substantially different from one operation to 7 that maintaining normothermia reduces the risk of 8 8 cardiovascular events in total hip or total knee the -- to the other. Q. One's a clean surgery, correct, the total arthroplasty. 10 A. There is no specific study in that patient 10 knee? population. I am drawing distinction between that and 11 A. Correct. 11 Q. And colorectal is a dirty surgery; correct? evidence in the sense that I look for evidence in 12 12 13 A. Correct. 13 making deci -- in making decisions. 14 Q. There's more heat lost when you open up the 14 Q. Doctor, do you even know what the risk of abdomen than when you open up the knee; correct? cardiovascular injury is in a total hip or total knee 15 15 If you know. Or if you don't know, you can arthroplasty? 16 16 say you don't know. A. I don't know what that statistic is. 17 17 A. I would agree with that. 18 18 O. It might be zero for all we know. Q. Okay. There's way more bacteria in a A. No. it's --19 19 20 colorectal surgery around the surgical site because of 20 I'm sure it's not zero. 21 what you're cutting into than within knee surgery; 21 Q. It's probably --It could be a super, super low number. 22 correct? 22 23 A. Correct. 23 A. If you want to speculate that that's the 24 case, given the fact that these are often elderly 24 Q. Okay. So they're not apples to apples; are they, doctor? Two different surgeries. 25 patients with comorbidities, I would question it, but 25 Page 231 Page 233 A. They are --I think neither you or I have the statistic to --1 I concede that they are two different sur --Q. I'm not an expert here, doctor. You're 2 2 3 3 the -- you're the doctor. surgeries. 4 Q. Okay. 4 A. Okay. 5 A. There are differences. 5 Q. You're the one that's saying that 6 Q. Okay. So how -- so you can't --6 maintaining normothermia reduces the risk of 7 You know, let's talk about open-heart 7 cardiovascular injury in a total hip and total knee surgery. Okay. That's different than a total knee 8 arthroplasty; correct? surgery; correct? 9 9 A. Correct. A. Correct. 10 10 Q. But you don't know what the risk is with or Q. The -- the -- the risk of a cardiovascular 11 without maintaining normothermia for a cardiovascular 11 event in an open-heart surgery is much greater than it injury in a total hip or total knee arthroplasty; do 12 12 is in a knee surgery; correct? 13 13 you? 14 A. Correct. 14 A. I just saw that the risk of morbid 15 Q. Okay. Surgeries --15 cardiovascular events in a broad range of surgeries There's different surgeries. You can't was reduced about 50 -- about 50 percent. I think it 16 16 com -- you -- you can't make all the surgeries the is completely fair and legitimate to apply a finding 17 17 like that to total joint arthroplasty patients. And 18 same to support your opinions that maintaining 18 19 normothermia is -- is effective for every type of 19 similarly, the original Frank paper, which dealt with 20 surgery. You have to look at case by case; don't we, 20 vascular surgery patients with a high incidence, if 21 doctor? 21 you can favorably impact the risk of cardiovascular 22 A. It would be nice to be able to do so. 22 events in a high-risk population like -- like that, 23 23 you ought to be able to have an impact on -- on O. Okay. lower-risk patients. 24 A. But the evidence of benefit in cases other 24 25 than joint arthroplasty is persuasive, and in the 25 Q. Do you know what a heater-cooler unit is?

	Page 234		Page 236
1	A. I know what a heater-cooler is, yes.	1	Q. Let's talk about the Sun article, sir. Do
2	Q. Is it used in arth in a arth	2	you want time to read the article before you make that
3	arthroplasty surgery?	3	statement?
4	A. No.	4	A. Sure.
5	Q. Why not?	5	Q. Okay. Why don't
6	A. Because you're not making the patient	6	Let's take a break and you can read it, and
7 8	hypothermic and rewarming them. Q. I mean there's no benefit for for	7 8	I'd I'd tell you to focus on degree-hours, focus on degree-hours before you're going to make that
9	making	9	statement with respect to arthroplasty surgeries.
10	A. It has no application. It has no relevance.	10	MR. ASSAAD: Let's take a break.
11	Q. Okay. So before you	11	THE REPORTER: Off the record, please.
12	You agree that before you use a device, you	12	(Recess taken.)
13	should determine whether or not it has a benefit to	13	BY MR. ASSAAD:
14	the patient; correct?	14	Q. Doctor, did you have time to read the Sun
15	A. Yes.	15	article?
16	Q. And there's different types of surgeries.	16	A. Yes, I did.
17 18	There is open-heart surgery; correct? A. Yes.	17 18	Q. Okay. Turn to degree-hours on Table 4. Do you understand what an odds ratio is?
19	Q. There's abdominal surgery; correct?	19	A. Yes.
20	A. Yes, there is abdominal surgery.	20	Q. Okay. And do you understand when it says
21	Q. There's brain surgery; correct?	21	"Area under 37 degrees Celsius (degree-hours)?"
22	A. Yes.	22	A. No.
23	Q. For example, you don't want to cool a	23	Q. Okay. So you don't understand what the
24	patient in in arthroplasty because it has no	24	authors here are indicating with respect to blood loss
25	benefit; correct?	25	and degree-hours.
	Page 235		Page 237
1	Page 235 A. Correct.	1	Page 237 A. Well from the from the text I gather that
2	A. Correct.Q. Okay. And I'm asking for what are the	2	A. Well from the from the text I gather that they are looking at the dura duration of
2 3	A. Correct.Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not	2 3	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia.
2 3 4	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And	2 3 4	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct?
2 3 4 5	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the	2 3 4 5	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct.
2 3 4 5 6	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may	2 3 4 5 6	 A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct?
2 3 4 5 6 7	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree?	2 3 4 5 6 7	 A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes.
2 3 4 5 6	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may	2 3 4 5 6	 A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct?
2 3 4 5 6 7 8	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment	2 3 4 5 6 7 8	 A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the
2 3 4 5 6 7 8 9 10	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment about whether it's beneficial. Q. Okay. The only thing that we know today, okay, is that forced-air warming is potentially	2 3 4 5 6 7 8 9 10	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the adjusted odds ratio for a patient that is 35 degrees Celsius for two hours would be about 1.06. A. I don't see I don't see where you're
2 3 4 5 6 7 8 9 10 11 12	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment about whether it's beneficial. Q. Okay. The only thing that we know today, okay, is that forced-air warming is potentially beneficial for colorectal surgeries according to a	2 3 4 5 6 7 8 9 10 11 12	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the adjusted odds ratio for a patient that is 35 degrees Celsius for two hours would be about 1.06. A. I don't see I don't see where you're getting getting that.
2 3 4 5 6 7 8 9 10 11 12 13	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment about whether it's beneficial. Q. Okay. The only thing that we know today, okay, is that forced-air warming is potentially beneficial for colorectal surgeries according to a '99 1996 Kurz study with respect to intraoperative	2 3 4 5 6 7 8 9 10 11 12 13	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the adjusted odds ratio for a patient that is 35 degrees Celsius for two hours would be about 1.06. A. I don't see I don't see where you're getting getting that. Q. Okay. So I I don't want you to guess, so
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment about whether it's beneficial. Q. Okay. The only thing that we know today, okay, is that forced-air warming is potentially beneficial for colorectal surgeries according to a '99 1996 Kurz study with respect to intraoperative warming. A. I I don't I don't believe that's	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the adjusted odds ratio for a patient that is 35 degrees Celsius for two hours would be about 1.06. A. I don't see I don't see where you're getting getting that. Q. Okay. So I I don't want you to guess, so if you don't understand the chart, then we don't have to go through the chart. Is that fair?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment about whether it's beneficial. Q. Okay. The only thing that we know today, okay, is that forced-air warming is potentially beneficial for colorectal surgeries according to a '99 1996 Kurz study with respect to intraoperative warming.	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the adjusted odds ratio for a patient that is 35 degrees Celsius for two hours would be about 1.06. A. I don't see I don't see where you're getting getting that. Q. Okay. So I I don't want you to guess, so if you don't understand the chart, then we don't have to go through the chart. Is that fair? A. Well the the discussion of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Correct. Q. Okay. And I'm asking for what are the benefits of warming a patient during arthroplasty, not colorectal. Talking about arthroplasty surgery. And that's something you should know before you make the patient pay money for a device that they may or may not need; don't you agree? A. I should make a make my best judgment about whether it's beneficial. Q. Okay. The only thing that we know today, okay, is that forced-air warming is potentially beneficial for colorectal surgeries according to a '99 1996 Kurz study with respect to intraoperative warming. A. I I don't I don't believe that's that we just we just	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Well from the from the text I gather that they are looking at the dura duration of hypothermia. Q. Below 37 degrees; correct? A. Corr correct. Q. And for how long as it is; correct? A. Yes. Q. Okay. So you agree with me that the adjusted odds ratio for a patient that is 35 degrees Celsius for two hours would be about 1.06. A. I don't see I don't see where you're getting getting that. Q. Okay. So I I don't want you to guess, so if you don't understand the chart, then we don't have to go through the chart. Is that fair?
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1 2	hospitalization" Q. The editor or the author?	1 2	increased estimated blood loss" So let's let's let's find that.
3 4	A. The editor.Q. Where are you referring to the editor?	3 4	Q. If you look under total total joint where he combines the two, you'll see a difference.
5	A. "What This Article Tells Us That Is New."	5	A. Okay.
6	Q. Okay. How would you apply this to total hip	6	Q. But you agree with me that the knee is a
7	and total knee, if you know?	7	different location than the hip; correct?
8 9	A. Well, it is another ar argument for the benefit of minimizing hypothermia.	8 9	A. The knee is a different location of the of the of hip. Because it's, you know
10	Q. Okay. So if a total knee or total hip	10	Q. So when you compare apples to apples and
11	usually lasts about an hour to an hour and a half	11	oranges to oranges, you don't see a statistically
12	and	12	significant difference between
13	A. An hour to two.	13 14	A. Yeah. It raises all kinds of questions in
14 15	Q an hour to two, and the temp and the patient let's	15	my mind how you could take a cohort of patients in which you have no difference, combine it with another
16	Let's look at this real quick. Go to page	16	such cohort, and come up with a highly significant
17	282. You agree with me that only 2.1 percent of	17	diff difference.
18	patients below 35 degrees Celsius were operations on	18	Q. But you don't know the answer to that
19 20	the musculoskeletal system? A. Yes. And but I'm not clear whether this	19 20	sitting here today. A. Correct.
21	refers to at any at any moment or at the end of	21	Q. Okay.
22	or the end end-of-case temperature,	22	A. But that is
23	Q. Okay.	23	But the conclusion that the authors draw is
24	A which is shown separately. So I don't	24	that hypothermia was associated with increased blood
25	know what that means.	25	loss.
	Page 239		Page 241
1	Q. Okay. Well we'll just agree that the	1	Q. What percentage of hospitals in the United
2	Q. Okay. Well we'll just agree that the document speaks for itself; correct?	2	Q. What percentage of hospitals in the United States have laminar airflow?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. Well we'll just agree that the document speaks for itself; correct? A. The document speaks for itself. Q. Okay. If we also look at the Frisch article, which is Exhibit 15, let's go to page 59 and let's look under total total knee arthroplasty. A. Yeah. Q. If you look at on on Table 2 on the right-hand side, which is total knee arthroplasty, it says EBL. What does EBL stand for? A. Estimated blood loss. Q. And you agree there's no statistically significant difference between the patients that are normothermic and the patients that are hypothermic; correct? A. Correct. Q. And if you look below that under total hip arthroplasty and you look at the estimated blood loss, again there's no statistical significance between the es estimated blood loss between patients that are normothermic and the patients that are hypothermic; correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. What percentage of hospitals in the United States have laminar airflow? A. I don't know. Q. Does your OR have laminar airflow? A. We have we have two rooms with laminar airflow. Q. Is it laminar or unidirectional? A. It's been described to me as laminar. Whether that is technically used correctly when it's been described to me, I can't necessarily say. Q. Okay. Do you know whether or not a laminar airflow OR even exists? A. So I so I have heard. Q. Do you know what "laminar" means? A. It means it means uni unidirection unidirectional. Q. You're not an engineer; correct? A. I'm not an engineer. Q. Okay. Do you You understand "laminar" is an engineering term? A. Yes. Q. Okay. And "turbulent" is an engineering
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Well we'll just agree that the document speaks for itself; correct? A. The document speaks for itself. Q. Okay. If we also look at the Frisch article, which is Exhibit 15, let's go to page 59 and let's look under total total knee arthroplasty. A. Yeah. Q. If you look at on on Table 2 on the right-hand side, which is total knee arthroplasty, it says EBL. What does EBL stand for? A. Estimated blood loss. Q. And you agree there's no statistically significant difference between the patients that are normothermic and the patients that are hypothermic; correct? A. Correct. Q. And if you look below that under total hip arthroplasty and you look at the estimated blood loss, again there's no statistical significance between the es estimated blood loss between patients that are normothermic and the patients that are hypothermic; correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. What percentage of hospitals in the United States have laminar airflow? A. I don't know. Q. Does your OR have laminar airflow? A. We have we have two rooms with laminar airflow. Q. Is it laminar or unidirectional? A. It's been described to me as laminar. Whether that is technically used correctly when it's been described to me, I can't necessarily say. Q. Okay. Do you know whether or not a laminar airflow OR even exists? A. So I so I have heard. Q. Do you know what "laminar" means? A. It means it means uni unidirection unidirectional. Q. You're not an engineer; correct? A. I'm not an engineer. Q. Okay. Do you You understand "laminar" is an engineering term? A. Yes.

Page 242 Page 244 Q. You say the Bair Hugger is located outside O. And you cite Avidan for that; correct? 1 1 the laminar flow area. 2 2 A. Yes. 3 3 A. Yes. It should be, proper use. Q. Do you believe Avidan is a good study? 4 Q. What's outside the laminar flow area? 4 A. Yes. 5 A. So the laminar flow area is mar -- is marked 5 Q. Okay. You don't think it's underpowered in 6 sometimes on the floor of the operating room but 6 any way? 7 almost always by a plexiglas curtain over -- overhead. 7 A. No. The air outside that ar -- area is not -- is not 8 O. Okay. How many times did they test to see whether or not they could culture bacteria from the laminar flow. 10 10 Q. And you're talking about the Bair Hugger Bair Hugger blanket? A. I think there were nine -- nine -- nine 11 blower; correct? 11 A. Well I'm talking about the Bair Hugger 12 12 samples or nine trial runs. 13 blower for certain in most instance -- instances, 13 O. In Avidan from the Bair -particularly with total joint arthroplasty. The Bair 14 A. I think -- I think that's right. Yes. 14 Hugger blanket is usually located outside the curtain Q. From the Bair Hugger blanket. 15 15 16 as well. A. Yeah. I'd be happy to take a look at the --16 Q. Okay. And by the way, you have issues with at the paper to refresh my mem -- memory, but I think 17 17 laminar flow; correct? 18 18 that's ---Q. Okay. 19 A. I don't have issues with lam -- lam --19 20 lamin -- laminar -- laminar flow, but I am aware that, 20 A. -- that's my recollection. 21 as you described earlier, that the enthusiasm about 21 Q. Okay. So your recollection is they tried its benefit in years past has waned with contradictory 22 nine times -- or eight or 10 times, whatever, give or 23 evidence. So I would -- I would say that it is an 23 take -- and -- from the Bair Hugger blanket to culture unsettled matter, at best, whether it is beneficial 24 bacteria. 24 for surgical patients. 25 A. Correct. 25 Page 245 Page 243 Q. Have you raised that issue with the people O. Okav. 1 at the hospital? A. And it said nine trials, each of -- each of 2 2 A. If I recall, 20 years ago when this facility 3 3 which had an array of culture -- culture media. And was built there was a bit of a debate about whether to 4 again, my recollection is that in the nine trials, 5 invest in it or not -- or not. I was not a primary 5 none of the arrays of culture media grew any bacteria. 6 MR. ASSAAD: Move to strike as 6 decision-maker on that. 7 Q. But recently and in preparing your report 7 non-responsive to a non-existent question. and raising that issue, which you also raised in the Q. You next talk about the body heat emanating 8 8 from the surgical staff. Do you know how many BTUs 9 Walton case, have you raised that issue with -- with 9 10 people at the hospital that you were employed at? 10 per hour the Bair Hugger produces? 11 A. No. 11 Q. Okay. Q. Do you know how many BTU -- BTUs per hour 12 12 A. I mean if we were building a new facility a -- a person produces? 13 13 to -- today, I would probably be part of the conver --14 A. No, I don't. 14 conversation, but I think the engineers and orthopedic 15 Q. Okay. Do you know --15 surgeons would be the ones who were most persuasive in I mean you're not an expert in heat 16 16 driving the decision. 17 17 transfer; correct? Q. And you would defer to the engineers with 18 18 A. Correct. 19 respect to airflow in the operating room. 19 Q. You're not an expert in fluid dynamics; 20 A. Correct. 20 correct? A. Correct. 21 Q. Okay. You write on page four, "Based on a 21 frequently cited study, the air emitted from the Bair 22 22 Q. So you have no opinion with respect to how 23 Hugger blanket does not produce bacterial growth when 23 the Bair Hugger blanket may affect the OR environment cultured." by the heat it produces or the airflow it produces. 24 24 25 25 A. Correct. A. Yes.

Page 246 Page 248 The commentary here is questioning the Q. So you're not aware of his study that --1 studies that claim to describe how the Bair Hugger that correlated bacterial load over the surgical site 2 2 3 3 influences those factors. with periprosthetic joint infections. 4 Q. Excuse me. I didn't understand you. 4 A. No. 5 A. The commentary in this letter are meant to 5 Q. And in fact not --6 address the shortcomings in the studies that purport 6 He even went further and said the bacterial 7 to address the disruption in laminar flow and 7 load had an effect on periprosthetic joint infections related -- related factors; that is, as we've 8 but not superficial wound infections. Are you aware discussed previous -- previously, the -- the 9 of that study? experimental mod -- model either having no per --10 MS. LEWIS: Objection to the form. 10 personnel, mannequins, no instruments, no Bo -- no A. Are you talking about the same study? 11 11 12 Bovies, et cetera, so in looking at -- at those, my 12 Q. Yeah. 13 conclusion was they -- for me, not being a particle or 13 A. Same study? No, I'm still not aware of. 14 airflow expert -- they still lacked face validity on 14 Q. Would that affect your opinions if those 15 that basis. 15 statements are true? Q. Well hypothetically speaking, if by adding 16 A. The --16 individuals would make the effect of the Bair Hugger MS. LEWIS: Objection to the form of the 17 17 worse, would that affect your opinions regarding those 18 18 question. 19 19 studies? A. Yeah. Repeat the question. Q. Darouiche --20 A. Regarding these studies. But what I would 20 In the Darouiche study, he correlated 21 say is that the studies of particle counts and air --21 22 airflow patt -- patterns, their relevance to the risk 22 bacterial load with periprosthetic joint infections of infection is un -- is -- is unproven, so that even 23 23 and also showed there was no relation between bacterial load over the surgical site and superficial if the particle counts --24 24 25 Q. I'm not talking about infection, I'm talking 25 wound infection. If -- if that study is accurate, Page 247 Page 249 about particle counts and bubbles. would that change your opinion with respect to A. Well -bacterial load causing periprosthetic joint infection? 2 2 3 Q. Okay? If --3 MS. LEWIS: Object to the form. A. And I'm -- I'm going to -- I'm going to A. It -- it might, but I would not make any 4 4 5 say -- say that from my point -- point of view, 5 conclusion about that without the opportunity to particle counts and bubbles are poor proxies or 6 review it in -- in detail --7 7 surrogates. Q. Okay. 8 Q. And what's your basis? 8 A. -- and presuming that the details of the A. Because I have not seen any evidence study -- study were i -- i -- items with which I could 9 9 10 connecting them with the risk of infection. 10 intelligently, based on my background and experience, Q. Have you not looked at the Darouiche study? 11 11 assess. A. Show me the Darouiche study. 12 12 Q. Let me ask you this, doctor: Hypothetically Q. Have you looked at it? "Yes" or "no." speaking, if the Bair Hugger increased particles over 13 13 14 A. That doesn't sound familiar. 14 the surgical site, and assuming that the increased 15 Q. Okay. Defense are very -- all aware of the 15 particles over the sur -- over the surgical site Darouiche study and the Stocks study. Have they not indicated increased bacterial load over the surgical 16 16 shown that to you? site, and there was also a study that indicated 17 17 18 A. Stocks --18 increased bacterial load over the surgical site 19 MS. LEWIS: Objection to the form of the 19 increases the risk of total hip and total arthroplasty 20 20 periprosthetic joint infections, would that change question. 21 A. Stocks sounds familiar. Rouiche --21 your opinion with respect to whether or not the Bair 22 Rouiche -- Rouiche does not. 22 Hugger significantly increases the risk of 23 Q. Do you know who Rabih -- do you know who 23 periprosthetic joint infections in total hip or total Rabih Darouiche is? knee arthroplasty --24 24 25 25 MS. LEWIS: Objection --A. No.

Page 250 Page 252 O. -- if all the statements are true? Are you aware of any study that compares the 1 1 MS. LEWIS: Objection to form. two anti -- different antibiotics that were used to 2 2 3 A. Perhaps, but not to the extent that a 3 determine whether or not any one of them had a -- a clinical outcome study, Bair Hugger/no Bair -- Bair better or worse effect on periprosthetic joint 5 Hugger, would -- would have. 5 infections? 6 Q. Who do you think would fund a study with 6 A. I -- I -- I don't know. 7 respect to the clinical outcomes on total hip and 7 Q. Okay. If there was a study that indicated total knee arthroplasty periprosthetic joint 8 that the prophylactic antibiotics were -- they -- they infections with the use of the Bair Hugger or the use were not inferior to each other, would that affect of a different warming device? 10 your opinion of whether or not the change in 10 A. I'm not able to speculate on who might fund antibiotics had an effect on the results? 11 11 12 that. 12 A. I -- I -- I think the results of this --13 Q. Do you know how much that study would cost? 13 this study should control -- controlled for that. 14 A. I don't know. 14 Q. Well why don't you answer my question. Q. Would you be surprised it would be millions A. If there were effectively no change in the 15 15 of dollars? 16 anti -- antibiotic --16 A. Would I be -- would I be surprised? No, I Q. That wasn't my question, sir. Why don't you 17 17 wouldn't be surprised. listen to my question. We'll -- we could get out of 18 18 Q. I mean just say assuming that the here really soon. If there is --19 19 periprosthetic joint infection rate for total hip and If there was a study that indicated that the 20 20 21 total knee is two percent, do you know how many 21 two antibiotic -- the two different antibiotic 22 patients you would need to conduct a study to show a 22 regimens used in the McGovern study were non-inferior 23 difference in an infection rate that's only two 23 to each other, means there was no difference, would that affect your opinion of whether or not the change 24 24 percent? 25 A. No, I don't know the number. 25 in the prophylactic antibiotics used had an effect on Page 251 Page 253 Q. Okay. More than 10; right? the McGovern results? A. Yeah. Presumably, yes. MS. LEWIS: Object to the form. 2 2 3 Q. Probably more than a thousand. 3 A. I would be -- I would be less -- less A. I -- I -- I don't know. 4 4 concerned --5 Q. With respect to McGovern, you criticize 5 Q. Okay. McGovern because of the change in infection prevention 6 A. -- but not unconcerned. 7 practices during the study period; correct? 7 Q. Okay. You say that more than 5,000 public A. Among other things, yes. 8 8 and private institutions rely on ECRI. Is that Q. Well that's what you put here. Oh, 9 9 correct? A. Yes. 10 motionless. But with regard --10 With respect to the clinical data, it's the Q. What's your basis? 11 11 change in infection prevention practices; correct? 12 12 A. ECRI. A. And the anticoagulation practices. 13 13 Q. So you rely on ECRI to tell you who relies Q. Well that's not in here; is it? 14 14 on ECRI? 15 A. No, but it's true. 15 A. ECRI -- yeah. I think that came from ECRI's Q. Well I'm looking at your report. It's not annual -- annual report. 16 16 in your report; correct? Q. Well there's a difference of public and 17 17 A. Yes, that's true. private institutions relying on ECRI or them -- or 18 18 19 Q. Okay. So let's just talk about the 19 people subscribing to the ECRI website. Do you infection prevention practices. Are you talking about 20 understand the difference? 20 the prophylactic antibiotics? 21 21 A. Okay. Okay. A. Yes. 22 22 Q. I mean you subscribe to the Anesthesiology 23 Q. Do you know whether or not the change in 23 Journal; correct? the pro -- that the prophylactic antibiotics -- strike A. Yes. 24 24 25 25 Q. You don't rely on every article that's that.

	Page 254		Page 256
1	published in the Anesthesiology Journal; correct?	1	is?
2	A. But to a degree I rely on it; otherwise, why	2	A. I don't know.
3	would I subscribe to it?	3	Q. Do you know whether water vapor is
4	Q. Because there might be some good parts,	4	equivalent in travel in the way it travels in the
5	there might be some bad parts; correct?	5	air to neutrally buoyant bubbles?
6	A. Correct.	6	A. I don't know.
7	Q. I mean there's some articles that I assume	7	Q. Do you know whether or not it is similar to
8	an independent doctor would read and be like I just	8	the way it travels with squames?
9	disagree with with the research or disagree with	9	A. I don't know.
10	the conclusion; correct?	10	Q. Okay. But we do know that water vapor could
11	A. Yes.	11	travel from where the heater-cooler is and and
12	Q. Even though you subscribe to Anesthesiology;	12	blown by the fan of the heater-cooler to the surgical
13	correct?	13	site; correct?
14	A. Yes.	14	A. That is what the alert implied.
15	Q. So you really can't sit here and say that	15	Q. Okay. And you're aware that the heater-
16	more than 5,000 public and private institutions rely	16	cooler unit is much further away from the sterile
17	on ECRI for evidence, reports and assessments of	17	field than the Bair Hugger is.
18	healthcare technology, but what you can say is there's	18	A. I don't know that.
19 20	probably 5,000 people that subscribe to it. Fair? A. Yeah. I'm not sure that it's people as much	19 20	Q. Okay. You've never used a heater-cooler unit?
21	as institutions.	21	A. Well I've been many many years ago in a
22	Q. Okay. You don't know whether or not the	22	cardiac opera operating room, but it depends where
23	institutions are relying on the data that ECRI	23	the pump where the pump and the heater-cooler sit.
24	provides; correct?	24	Q. And you're not disputing that an implant can
25	A. I don't I don't know the extent to which	25	be contaminated by airborne contamination; are you?
			, y
	Page 255		Page 257
1	they do so.	1	A. I think it is I think it is possible. I
2	Q. That would be pure speculation; correct?	2	think contamination of sur of surgical wounds is
3	A. Correct.	3	principally from the skin and subcutaneous flora of
4	Q. Okay. Now you'll agree, with respect to the	4	the patient.
5	heater-cooler devices, that the bacteria was	5	Q. Except when the heater-cooler is involved,
6	aerosolized on water vapor and traveled to the	6 7	then it can be contaminated by the heater-cooler. A. I
7 8	patients; correct? A. That is that is what was reported.	8	Again, I think that's the implication of the
9	Q. Okay. And you have no reason to disagree	9	FDA alert.
10	with that; correct?	10	Q. I mean you're citing it. Do you agree with
11	A. I have no reason to disagree.	11	it or not?
12	Q. It wasn't by direct contamination but by	12	A. Yes.
13	indirect contamination.	13	Q. Okay.
14	A. I'm not sure what you mean by "direct	14	A. Yeah.
15	contamination" or "indirect contamination."	15	Q. So so a wound could be contaminated by
		15 16	Q. So so a wound could be contaminated by airborne contamination.
15	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean.		- · · · · · · · · · · · · · · · · · · ·
15 16 17 18	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aero	16 17 18	airborne contamination. A. Right. Q. Okay.
15 16 17 18 19	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aero aerosolized, it traveled through the air; correct?	16 17 18 19	airborne contamination. A. Right. Q. Okay. A. A a wound a wound can.
15 16 17 18 19 20	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aero aerosolized, it traveled through the air; correct? A. In in in liquid.	16 17 18 19 20	airborne contamination. A. Right. Q. Okay. A. A a wound a wound can. Q. Okay. I mean that's why you have
15 16 17 18 19 20 21	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aero aerosolized, it traveled through the air; correct? A. In in in liquid. Q. Okay.	16 17 18 19 20 21	airborne contamination. A. Right. Q. Okay. A. A a wound a wound can. Q. Okay. I mean that's why you have unidirectional flow or laminar flow and filters and
15 16 17 18 19 20 21 22	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aero aerosolized, it traveled through the air; correct? A. In in in liquid. Q. Okay. A. In water.	16 17 18 19 20 21 22	airborne contamination. A. Right. Q. Okay. A. A a wound a wound can. Q. Okay. I mean that's why you have unidirectional flow or laminar flow and filters and HVAC systems, to provide the cleanest air possible at
15 16 17 18 19 20 21 22 23	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aeroaerosolized, it traveled through the air; correct? A. In in in liquid. Q. Okay. A. In water. Q. In water vapor.	16 17 18 19 20 21 22 23	airborne contamination. A. Right. Q. Okay. A. A a wound a wound can. Q. Okay. I mean that's why you have unidirectional flow or laminar flow and filters and HVAC systems, to provide the cleanest air possible at the OR; correct?
15 16 17 18 19 20 21 22	contamination" or "indirect contamination." Q. You don't know the difference? A. I don't know what you mean. Q. Okay. When you say it's been aero aerosolized, it traveled through the air; correct? A. In in in liquid. Q. Okay. A. In water.	16 17 18 19 20 21 22	airborne contamination. A. Right. Q. Okay. A. A a wound a wound can. Q. Okay. I mean that's why you have unidirectional flow or laminar flow and filters and HVAC systems, to provide the cleanest air possible at

Page 258	Page 260
1 in the OR; correct? 2 A. Yes. Yes. 3 Q. To keep contaminants out. 4 A. To keep contaminants out. What the relative 5 risk of those contaminants are in surgical in 6 infections is less clear. As I said, the what I 7 have been taught is that it is about the skin skin 8 and subcutaneous flora as the source of surgical 9 contamination. And while it may be possible that the 10 air is a contributor, I am unable to describe its 11 relative contribution and therefore risk. 12 Q. But you're basing this on what you were 13 taught 25 years ago and not on any scientific journal 14 or article at at this point in time. 15 MS. LEWIS: Objection, form. 16 A. I'm base basing it on what is has been 17 taught continually since since my training. 18 Q. But you're not an infectious disease expert; 19 correct? 20 A. I'm not an 21 Q. Okay. 22 A infectious disease expert. 23 Q. And you've never studied or researched the 24 causes of periprosthetic joint infections; correct?	1 Q. Well you cited you've 2 You've had an opportunity to review their 3 their their consensus; correct? 4 A. Yes. 5 Q. Okay. And you don't recall what they 6 discussed with respect to 7 A. Well you're asking me to subscribe to a 8 specific statement, and I just don't think it's fair 9 to ask me to do do that without it in front of me. 10 Q. Okay. So you you you think it's fair 11 to take one statement out of a whole publication to 12 support your your theories, but disregard the rest 13 of the statements? 14 A. Well I'm not I'm not sure that what they 15 say about the source of joint infections would 16 contradict what they've said about the safety of Bair 17 Hugger. 18 Q. Assuming that the Bair Hugger increases the 19 risks of surgical-site infections, do you agree with 20 me that that risk is not warned on the warning labels 21 of the Bair Hugger? 22 MS. LEWIS: Object to form. 23 A. Right. And yes, I would agree 24 Q. Okay.
25 A. Correct.	25 A that an unproven risk is not warned.
Page 259 Q. Okay. I mean, in fact, if airborne contamination were not an issue, the research and development of high-quality HVAC systems in operating rooms would be unnecessary; correct? A. Well I don't know how necessary they in fact are. And the example we just discussed of laminar flow appearing to be very necessary at one point and either unnecess somewhere between unnecessary and hazardous at some other point, that evolution could be occurring with any of the things you mentioned. Q. But you By the way, you would defer to the International Concensus with respect to the cause the causes of periprosthetic joint infection, International Concensus of Orthopedic Surgeons. A. I would I'd want to see their commentary on that subject on that subject before endorsing it altogether. Q. So you just want to take parts of what they say and then disregard other parts? A. No. I may I may Q. Okay. A. I may fully embrace the language that you are referencing, but I don't know that as I'm sitting here.	Page 261 Q. Are you aware that on the 200 series Bair Hugger they warned about the risk of airborne contamination? A. Well I'm not sure what they were referring to when they said "airborne contam contamination." Contamination Q. Are you telling me that you might have a different definition of "airborne contamination" than A. Well contaminate contaminated with what? Q. Anything. Airborne contamination. A. I don't Well, so I don't know what they were were referring to. Q. But when I use the term "airborne contamination" in in in within the Let me ask you this: When when your colleagues use the word "airborne contamination," do you know what they are referring to? A. I'm not sure that they know what they're referring to. Q. Oh. A. So it could be You know, in my in my world we talk about airborne contamination of trace anesthetic gases all

Page 262 Page 264 the time. Is that -- is that what you're talking 1 who that -- and -- and who 3M markets the device to? 2 about, about chemical contamination? And -- and then 2 A. I'm not sure how that's relevant to an 3 there's a difference between particles and -- small opinion on -particles, large particles, bacteria, smoke, all of 4 Did -- did you say labeling? these are potential airborne contaminants that we 5 Q. Warnings and labeling. 6 think about and talk about in the operating room 6 7 7 setting. Q. Given it's important to know who uses the 8 8 Q. So if a colleague of yours is talking about device to determine what warnings should be -airborne contam -- con -- contamination, you would 9 A. I think the device -need more information to know what he's talking about. 10 Q. -- documented? 10 A. If they just use that phrase in a vacuum, I A. -- the devices are probably nearly 11 11 universally operated and used by anesthesia staff. 12 would need to ask for clarification. 12 13 O. Okav. 13 Q. Well if surgeons are concerned about 14 A. But obviously, in conversation things have a 14 increased particles over the surgical site and 3M context and it might be -- it might be clear. knows of this concern, and 3M also is aware that when 15 15 the Bair Hugger is used it increases particles over Q. In an OR, when doctors use the term 16 16 "airborne contamination," do you know what they're the surgical site, do you believe there's an 17 17 obligation for 3M to warn the orthopedic surgeons of referring to? 18 18 MS. LEWIS: Objection, form. the increase of particles? 19 19 A. Yeah. I don't --MS. LEWIS: Objection to form. 20 20 21 I may know what they're referring to 21 A. What -- what is the significance or 22 depending on the context of the conversation. 22 meaning of those particles? 23 Q. You do agree that the area underneath the 23 Q. Doesn't matter what -operating room table is not sterile. A. Yes, it does. 24 24 25 A. Correct. 25 O. No, it --Page 265 Page 263 I'm saying that the orthopedic surgeons care 1 Q. Okay. And in fact doctors are -- or 1 surgeons are taught to always keep their hands above about particles. Whether or not it's significant to 2 the operating room table. 3 you or not, that's what the orthopedic surgeons care 3 A. Surgeons are taught -- are taught that. about, increased particles over the surgical site. 4 4 Q. Otherwise, you'd have to --If 3M is aware of this concern by orthopedic 5 5 If -- if your hands go below the sur -- the 6 surgeons and they're aware that the Bair Hugger 6 operating room table, you'd probably have to go 7 increases particles over the surgical site, do they 7 and -- and rescrub and -- and be sterilized and -have an obligation to warn the orthopedic surgeons? 8 MS. LEWIS: Objection to form. and, you know, rescrub; right? 9 10 A. I've seen -- I've seen that happen. 10 A. No, not if they know --Q. All right. You've seen that happen? O. Okav. 11 11 A. -- that the particles are inconsequential. 12 A. Yes. 12 Q. Like the hands went underneath the table and 13 Q. Well how do you know the particles are 13 they have to go rescrub? 14 inconsequential? 14

A. Yes.

15

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22

Q. Do they touch anything underneath the table?

A. They --

18 The concern -- concern was that they touched 19 the drape under -- under the table.

Q. Are you aware that 3M markets to orthopedic surgeons use of the Bair Hugger?

A. I wasn't aware of that.

23 Q. Well if you're going to opine on warnings, which you are in your report, wouldn't it be helpful 24

to know who uses the device and for what purpose and

15 A. Well, because they can have the capacity to meas -- meas -- measure the output of the -- of the 16 17 device.

Q. Do you -- never mind.

The 200 series warned about airborne contamination in 1987. Are you aware of that?

A. No.

Q. Okay. If that is the case, that 3M was aware of airborne contamination as of 1987, do you agree that aerosoliz -- aerosolization of bacteria that could potentially cause an infection was a known

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	Page 266		Page 268
1	risk for 3M?	1	testing of the of of the filters is relevant to
2	MS. LEWIS: Objection, form.	2	that that question, and I have seen that.
3	A. No.	3	Q. Okay. And you've just recently seen it;
4	Q. Okay. If you yourself see, on a device that	4	correct?
5	blows air, potential for airborne contamination, what	5	A. Yes.
6	would what would that mean to you as an	6	Q. You got it yesterday; right?
7	anesthesiologist in the operating room?	7	A. May within
8	A. I would want to know what it meant to the	8	Within recent weeks.
9	auth authors of that of that warning.	9	Q. Okay. After you you you submitted
10	Q. You mean the manufacturer?	10	your report.
11	A. That is the author of the warning.	11	A. Correct.
12	Q. Okay. But for you to get to that point, you	12	Q. Okay. But you're not a filtration expert.
13	would like to at least see the warnings so you could	13	A. That is that that is true.
14	ask questions about it; correct?	14	I must say I must say that, unlike some
15	A. Well I don't want to see warnings about	15	of the statistics in the paper we just looked at, what
16	things that are not genuine risks. Right? I mean	16	I saw in that report was meaningful to me.
17	I you know, it's like going to Cal going to	17	Q. Are you talking about the ones where they
18	California, "This elevator contains materials that are	18	tested the the MERV rating, or the contamination?
19	known to cause cancer," so I I	19	A. It was
20	If there is a substantial risk to the device	20	Was it a 52.2 2 test?
21	in in proper use of the device, I think that is a	21	Q. Yeah. And that and that stank; right?
22	fair a fair warning, but if the device produces	22	A. No.
23	airborne contamination that is not meaningful to my	23	Q. Fifty-two percent stank.
24	patient, then I'm not sure why I'd want to see that	24	MS. LEWIS: Fifty-two what?
25	why I would want to see that warning.	25	Q. Fifty-two percent stank.
	Page 267		Page 269
1	Q. But you don't know either way if it's	1	A. No, I didn't say 52 percent.
2	meaningful or not.	2	Q. Oh.
3	A. I'm sorry?	3	A. I said the test was designated 52.2 or
$\frac{3}{4}$	O. You don't know either way unless you see a	4	something like that.

- Q. You don't know either way unless you see a warning to even question the warning.
- A. Well to some extent -- to some extent I want the manufacturer to use some judgment about what they warn me about. But if I saw the warning, I would ask questions about so what is this -- what is it contaminating the air with and what does that mean.
- Q. Well you're not an infectious disease expert; correct?

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- 13 A. No. But I would have some need to respond to seeing that -- seeing that warning. 14
- Q. Are you aware that on the 510(k) application 15 they indicated the potential of airborne contamination 16 in the 500 series device? 17
- A. As I said, I don't think I've seen the 18 19 510(k) applications.
- 20 Q. Okay. You haven't seen the 510(k) 21 applications.
 - A. I have not seen the 510(k) applications.
- 23 Q. So you have -- you have not seen any of the internal data regarding contamination; correct? 24
 - A. Well as I said, I think the results of the

- something like that.
- 5 Q. And of course since you did not bring this filtration document, I have no idea what you're talking about today; correct? 7
 - A. Well let me tell -- tell you that what it showed was that in the particle sizes with which I am concerned; that is, the large -- larger particles, the old and the new filters both were 99.8 percent, or thereabouts, effective in removing them.
 - Q. You did not bring the document today and you have no Bates numbers to refer me to the document; correct?
- 16 A. I'm not sure what the Bates -- Bates number 17 is, but --
- Q. The number that has like 3MBH at the bottom 18 19 of it.
- 20 A. I -- I don't have that.
 - Q. Okay. Because you were told not to bring
- 22 it.

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- 23 A. No, I was not told not to bring -- not --
- not to bring it. I was told to -- to -- to come and 24
- 25 not to bring -- not to bring anything.

Page 270 Page 272 Q. You were told to what? about airborne contam -- contamination, that is in 1 essence a question about filtration, and so I think 2 A. Come here and not to bring anything. 2 3 3 that you obviously had it in your mind to discuss --O. Okay. A. Which makes perfect sense because I would to discuss that. 5 bring a truckload of stuff, poten -- potentially, and 5 Q. Well so you're now predicting what I have in I have no idea what's relevant to the discussion. My 6 my mind? expectation was -- was that if you were going to ask 7 A. I'm not predicting, I'm observing what you 7 8 me about filtration, that you would have the documents just asked me about. relevant to that discussion. Q. The reason I brought up filtration was because you mentioned you looked at a document and you 10 10 Q. Is there anything about filtration in your wanted to -- that wasn't part of even any of the --11 report? 11 12 A. No, but you just asked me about it. 12 the materials that --13 Q. Well I mean I asked you about it because you 13 A. No, you asked -- you asked me about the 14 told me you could not produce a document; correct? 14 warning label -- labels before I mentioned that. I can't read your mind, sir. Okay? How did 15 15 I know you were going to talk about filtration? I 16 MS. LEWIS: How long have we been going now? 16 have your report. Is there anything about your report 17 THE VIDEOGRAPHER: Let's see. Five hours 17 dealing with filtration? 18 18 and 23 minutes. A. No, I don't believe there is. 19 MS. LEWIS: I'm -- I'm sorry, I meant since 19 Q. Okay. So how would I expect to ask you 20 20 the last break. I'm sorry. 21 questions on filtration if it's not in your report? 21 MS. ZIMMERMAN: Forty minutes since the last 22 A. Well many --22 23 MS. LEWIS: Gabe, my goodness. 23 MS. LEWIS: Okay. But we're now, I'm sorry, THE WITNESS: I'm sorry? 24 24 five hours and how much? 25 MS. LEWIS: Just my comment. Go ahead. 25 THE VIDEOGRAPHER: And 23 minutes. Page 271 Page 273 A. Because many of the allegations or MS. LEWIS: Okay. Gabe, is this a good time 1 suggestions of the hazards and the basis of that 2 for a break or -warning pertain directly to the efficiency of the 3 MR. ASSAAD: Couple minutes on the warning. 4 filtration. 4 BY MR. ASSAAD: Q. How am I supposed to know you're going to 5 5 Q. The only warning that you're referring to is opine on anything in filtration that's not in your 6 the hosing warning in your report; correct? 7 expert report or in Exhibit B -- or Exhibit 2 of --7 Page six. 8 A. Well you asked -- you asked me about it. 8 A. Well I can -- I can -- I can read it to you, Q. I'm talking about before today. How am I but it does comment on the hosing -- hosing warning 9 9 supposed to know that, sir? 10 10 and says -- it says that with respect to risk of A. I don't know. contamination or infection, that I don't believe a 11 11 MS. LEWIS: You're rising your voice warning -- a warning was warranted. 12 12 Q. Okay. But you're not an infectious disease 13 13 unnecessarily. MR. ASSAAD: No, I don't think it's 14 expert; correct? 14 unnecessarily about coming up with new opinions on the 15 A. I am not an infectious disease expert. 15 day before a deposition. Q. And you don't know what concerns orthopedic 16 16 MS. LEWIS: He didn't come up with new surgeons have with particles; do you? 17 17 A. I can't speak for orthopedic --18 opinions. 18 19 Q. Sir, how am I supposed to know that? 19 Q. Okay. 20 A. I have no idea. 20 A. -- orthopedic surgeons. Q. And you've never ever once in your life 21 Q. I mean you're a doctor. Is there any 21 created any type of warning for a medical device; 22 medical -- medical situation where someone could 22 predict what someone's going to say at -- you know, at 23 23 correct? a deposition? 24 24 A. Correct. 25 25 Q. And you offer that opinion without having A. No, no. But when you ask me about warnings

	Page 274		Page 276
1	seen the warnings provided on the original device, the	1	side; correct?
2	200 series, the 500 model, or the 700 series; correct?	2	A. Correct.
3	A. I'm sorry?	3	Q. Okay. So if you're going to criticize
4	Q. You haven't seen the warnings on any of the	4	McGovern for some of the authors having a financial
5	devices besides the 505.	5	interest, you got to do the same criticisms for the
6 7	A. That's probably true.	6 7	Kurz for those authors having a financial interest.
8	Q. Okay. You haven't looked at the operating room man operating manual; correct?	8	Goose/gander rule; right? A. Well I'm yeah. So I'm not sure
9	A. Not since not since they first originally	9	what what "criticize" means. So fine, I recognize
10	put them into use.	10	that Kurz was funded by Augustine and I recognize that
11	Q. You haven't looked at any of the warnings of	11	McGovern was funded by Augustine.
12	any other forced-air warming devices; have you?	12	Q. You believe McGovern was funded by
13	A. I haven't seen in person any other forced-	13	Augustine?
14	air warming devices.	14	A. By by by Hot Dog.
15	Q. You haven't looked at the 510(k); have you?	15	Q. Okay. Do you know if they fun they
16	A. No.	16	provided any money?
17	MR. ASSAAD: Okay. Let's take a break.	17	A. I don't I don't know. But they that's
18	THE REPORTER: Off the record, please.	18	the
19	(Recess taken.)	19	The paper contains the disclosure.
20	BY MR. ASSAAD:	20	Q. Do you know that the only thing that Dr.
21	Q. Doctor, are you aware that the 1996 1996	21	Augustine provided was just a Hot Dog device?
22	Kurz study was funded by Augustine?	22	A. I don't know I don't know that.
23	A. I'm not aware of that.	23	Q. Okay. Were you provided Dr. McGovern's
24	Q. Would that affect your interpretation of	24	deposition?
25	or or your opinion of the 1996 article?	25	A. It may have been among among the
	Page 275		Page 277
1		1	
1 2	A. I I	1 2	materials I was provided.
2	A. I I Would that affect? No.	2	materials I was provided. Q. Were you provided with Dr. Reed's
2 3	A. I IWould that affect? No.Q. Okay. But you agree with me that in 1996		materials I was provided. Q. Were you provided with Dr. Reed's deposition?
2 3 4	 A. I I Would that affect? No. Q. Okay. But you agree with me that in 1996 that Augustine had a final financial interest in 	2 3	materials I was provided. Q. Were you provided with Dr. Reed's deposition? A. I don't know.
2 3	A. I IWould that affect? No.Q. Okay. But you agree with me that in 1996	2 3 4	materials I was provided. Q. Were you provided with Dr. Reed's deposition?
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2 3 4 5 6	 A. I I Would that affect? No. Q. Okay. But you agree with me that in 1996 that Augustine had a final financial interest in the Bair Hugger. A. I believe so. 	2 3 4 5 6	materials I was provided. Q. Were you provided with Dr. Reed's deposition? A. I don't know. Q. Were you provided Albrecht's deposition? A. I believe I was.
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Page 278 Page 280 A. I'm unable to comm -- comment on Dr. Reed's antibiotics' timing; correct? 1 2 A. It could -- it could have. competence as a researcher. 2 3 3 Q. So what have you done in your clinical Q. So besides doing a literature review in your expert report, Exhibit No. 3, what methodology did you 4 practice to show that maintaining normothermia 5 use to come up with your conclusions on pages six and 5 improves the outcome in surgical patients? 6 6 MS. LEWIS: Objection, asked and answered. 7 A. I looked at the literature, including the 7 A. As I said, the -- the --8 In aggregate, I can look at the rate of 8 systematic rev -- reviews, and my own clinical surgical infections in my institution being at -- at experience. O. Okay. I said besides the literature what 10 benchmark or bett -- or better, and I look at the --10 did you do. Just your own clinical experience? at the literature and in particular the systematic 11 11 A. Yes. I did not undertake any primary 12 12 reviews. 13 research. 13 Q. Take the literature out of it. A. Well the literature is --14 Q. So what in your clinical experience that you 14 did to indicate that maintaining normothermia improves 15 15 Q. Take the lit -outcomes in surgical patients? 16 I'm saying in your clinical practice, what 16 A. That I don't see pa -- patients often -have you done to say, "Aha, maintaining normothermia 17 17 often shiver, that I don't see pa -- patients who are reduces the incidence of surgical-site infection?" 18 18 warm -- warm become dangerously hypertensive, and that 19 A. I would say maintaining normother --19 I believe that the rate of surgical infect -normothermia is one of a number of practices that lead 20 infections is at least at bench -- benchmark or 21 21 to that, and we adhere closely enough to those 22 better. 22 practices to produce good results. 23 Q. Well you don't follow patients after they 23 Q. If you have prophylactic antibiotics, skin prep, HVAC system, surgical procedure and technique, leave the PACU on a regular basis; do you? 24 24 25 A. No. okay, and maintaining normothermia, and you have an Page 281 Page 279 Q. Okay. And if they did get a surgical-site infection rate that meets benchmark or a little bit infection, such as a superficial wound infection that better, how did you determine that this one, didn't -- that didn't require surgery, that you 3 maintaining normothermia, had an effect on surgical wouldn't know about it; would you? 4 4 patients -- outcomes of surgical patients and the A. I would -- I -- I would not perhaps know 5 5 other four -about an individual patient, but in aggregate the 6 A. I didn't say that the other four didn't. 7 performance of our surgical service I would be aware 7 Q. Okay. So it may -- it may or may not have an effect. You don't know; do you? 8 8 of. 9 A. So on the -- on -- on the basis of my Q. By the data. 9 person -- of my personal exper -- experience, I have 10 A. By the -- by the data or by our tracking. 10 Q. But what have you done, I mean clinically, not done a study to isolate temperature management 11 11 to show that maintaining normothermia improves the from other techniques to optimize patient outcomes. 12 12 outcomes in surgical patients? What tests have you 13 Q. So you're solely relying on the literature 13 done? What data have you looked at? 14 to support --14 15 A. I've looked -- looked at -- I -- I've 15 A. I am principally relying on the -- on the looked -- looked at my -- my own patients and I've 16 looked at the aggregate da -- data from our 17 Q. Solely relying on the literature. 17 institution against various -- against various MS. LEWIS: Objection, misstates the 18 18 19 benchmarks. 19 testimony. 20 O. That could have been caused --20 A. No, I -- I disa -- I disagree. I look at --If -- if our performance on infections or 21 A reduction in infection rates could have 21 22 been caused by skin prep; right? 22 other important complications, cardiovascular

23

24

25

mortal -- morbidity and -- and so forth, were

maintaining normothermia, are we giving antibiotics at

outliers, then I would be looking at are we

A. It could be. All -- all of these things

Q. It could have been caused by prophylactic

have many -- many cause -- many causes.

23

24

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	D 400		D 2014
	Page 282		Page 284
1	the and and take it apart. So I fully	1 2	Q. Do you know what a computational fluid
2 3	recognize that these things are all multifactorial. Q. If I ask you to give me evidence outside the	3	dynamics analysis is? A. I've heard I've heard the term, but that
4	literature in your clinical practice that indicates	4	is way way outside my expertise.
5	maintaining normothermia im	5	Q. Okay. So you would defer to a computational
6	A. In isolation?	6	fluid dynamics expert with respect to computational
7	Q improves outcomes in surgical patients in	7	fluid dynamics; correct?
8	your clinical practice,	8	A. Yes.
9	A. No.	9	Q. So just to be clear, besides
10	Q what evidence do you have?	10	I mean you haven't done research on
11	A. If you're talking about that as the sole	11	maintaining normothermia and you haven't published any
12	factor?	12	articles regarding maintaining normothermia and you're
13	Q. Yes.	13	not an infectious disease expert, you're not an
14	A. No.	14	engineer, you're not an orthopedic surgeon, so what is
15	Q. Okay. You have none; correct?	15	it with respect to your credentials that provides the
16 17	A. Correct.	16 17	appropriate methodology to determine whether or not
18	Q. Okay. Going to page four, halfway through you write, "The opinions of plaintiffs' experts Drs.	18	the Bair Hugger is a safe device besides the literature?
19	Stonnington and Jarvis largely rely on this entirely	19	A. "The appropriate methodology."
20	unproven relationship. In addition, these experts	20	Q. Yes.
21	also attribute the alleged risk of the Bair Hugger	21	A. Help me understand what you mean by that.
22	device to the bacterial content of the internal and	22	Q. Well you're not an engineer so you can't
23	external surfaces of the device and the output of the	23	look at the airflow of the Bair Hugger; correct?
24	Bair Hugger hose."	24	A. Correct. I am
25	Did I read that correctly?	25	Q. Okay. And you
	Page 283		Page 285
1		1	
1 2	A. You read that correctly.	1 2	A. I am a clinician and I am there focus
2 3 4	 A. You read that correctly. Q. Are those the only two criticisms wait, strike that. That Those are the only two criticisms in your 	2	A. I am a clinician and I am there focus focusing thereby focusing on clinical outcomes, and that's that's what I am most interested in. I have been presented, through the campaign, allegations
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	Page 286		Page 288
1 2 3 4	some familiarity with the basic principles, but I am not a specialist in that area. Q. Well you've never done any studies with respect to bacterial load and	1 2 3 4	A. My credentials have no say nothing say nothing about the bacterial load. I'm not sure how my credentials could say anything about the bacterial load or
5	A. No. You	5	Q. I'm just asking. So you agree with me that
6	Q periprosthetic joint infections.	6	there's nothing
7	A. No, but I	7	A. My creden my credentials say something
8	Q. I mean I could I could read a study as	8	Q. Your experience. Experience, education,
9	well. I mean I could read	9	training.
10	A. No, but you you	10	A. Okay.
11	Q. But let's talk about your experience.	11	Q. What about your experience, education,
12 13	A. But you haven't, you know, written consult consultations on patients with infectious	12 13	training, about you, doctor, gives you the expertise to determine whether or not the Bair Hugger has any
14	disease disease problems as a student or a or	14	effect on the airflow that could increase the
15	or a trainee.	15	bacterial load over the surgical site?
16	Q. And you consult with an I.D. expert.	16	MS. LEWIS: Asked and answered.
17	A. I was under the supervision of a faculty	17	A. I have said multiple times that I am not an
18	I I.D. expert, so I learned something about	18	expert in bacterial load over the over the
19	infectious disease. I'm not an infectious disease	19	surgical site.
20	ex expert.	20	Q. So I'm just trying to figure out
21 22	Q. Okay. That's all I'm saying.	21 22	Forget about the literature. Without the literature, you actually have no methodology to offer
23	A. Okay. I have conceded thatQ. You've done no studies	23	the opinion that the Bair Hugger does not increase the
24	A half a dozen times today.	24	bacterial load over the surgical site and is safe.
25	Q. You've never done any studies on bacterial	25	MS. LEWIS: Objection, form.
	Page 287		Page 289
1	load and periprosthetic joint infections.	1	A. Without the literature.
2	load and periprosthetic joint infections. A. I have not done any studies	2	A. Without the literature.Q. Without the literature.
2 3	load and periprosthetic joint infections. A. I have not done any studies Q. Okay.	2 3	A. Without the literature.Q. Without the literature.A. That's that's that's corr correct.
2 3 4	load and periprosthetic joint infections. A. I have not done any studies Q. Okay. A on that.	2 3 4	 A. Without the literature. Q. Without the literature. A. That's that's that's corr correct. I've already said that.
2 3 4 5	load and periprosthetic joint infections. A. I have not done any studies Q. Okay. A on that. Q. Okay. You have never	2 3 4 5	A. Without the literature. Q. Without the literature. A. That's that's that's corr correct. I've already said that. MR. ASSAAD: Okay. That's all I have.
2 3 4 5 6	load and periprosthetic joint infections. A. I have not done any studies Q. Okay. A on that. Q. Okay. You have never You're not an aerobiologist; correct?	2 3 4 5 6	A. Without the literature. Q. Without the literature. A. That's that's that's corr correct. I've already said that. MR. ASSAAD: Okay. That's all I have. Thank you.
2 3 4 5	load and periprosthetic joint infections. A. I have not done any studies Q. Okay. A on that. Q. Okay. You have never You're not an aerobiologist; correct? Correct?	2 3 4 5 6 7	A. Without the literature. Q. Without the literature. A. That's that's that's corr correct. I've already said that. MR. ASSAAD: Okay. That's all I have. Thank you. MS. LEWIS: We'll switch place places.
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Page 290 Page 292 it was tested in that study or not? Q. The "Perioperative Standards and Recommended 1 1 2 A. No. 2 Practices." 3 Q. You were asked earlier to put an S next to A. Yes. Q. You were also asked questions about the all the articles that you cited in Exhibit 2, which is 4 titled "Materials Considered;" correct? 5 Avidan study, in particular whether you believed the 6 A. Yes. 6 Avidan was a good study; correct? You remember that 7 7 questioning? Q. And this is the one that was presented this 8 8 morning; correct? A. Yes. 9 9 A. Yes. Q. And whether you thought the study was Q. And you put an S next to -- tell me if this 10 10 underpowered or not. And so you remember that sort of is right -- the ECRI Institute. Did you put an S next line of questioning? 11 11 12 to that one? 12 A. Yes. 13 A. Yes, I did. 13 Q. Why did you put an S next to Avidan at the -- on the -- I un --14 Q. Did you put an S -- S next to the Centers 14 for Medicare & Medicaid Services, number two? As I understand, the S stood for you thought 15 15 A. Yes, I did. 16 that study supported your opinions, correct, --16 Q. Okay. Although they're not officially A. That is correct. 17 17 numbered, I'm going to sort of say -- try as best Q. -- that the Bair Hugger was safe? 18 18 A. That -- that is correct. 19 19 to --A. Okay. 20 20 Q. Why did you say that --Why do you say that the Avidan study 21 Q. -- identify them. 21 22 You put an S next to the Hooper study? 22 supports your opinion? 23 23 A. Because it specifically add -- addresses the Q. Next to a website. Are you -- I guess it's bacterial output of the Bair Hugger blan -- blanket 24 24 the NICE --25 and it stands apart from other -- other studies that 25 Page 293 Page 291 A. Yes, it is. look at the internal contents of the heat generator or 1 even the hose itself, and I think that the -- in 2 Q. -- organization; correct? 3 A. Yes. 3 clinical use what is most important is what is in the 4 Q. You put an S next to Miller's Anesthesia; air that is being delivered to the patient, which is 5 correct? 5 through the blanket, and the fact that they were 6 unable in multiple iterations of trial -- of trials A. Yes. 7 Q. An S next to the Kurz and Frisch study; with that to produce any bacterial growth seems highly 7 persuasive to me to counteract any argument that the correct? 8 8 A. Correct. 9 9 Bair Hugger blanket is delivering bacteria into the 10 Q. An S next to the Avidan study. 10 operating room environment. O. So the --11 11 12 Q. An S next to the Memarzadeh study; correct? 12 One of the findings of the Avidan study was that when the blanket was applied, which is the way it A. Yes. 13 13 14 Q. An S next to the Proceedings of the is used -- you use it in the OR, Avidan did not find 14 International Concensus Meeting on Periprosthetic 15 any bacterial growth; is that correct? 15 Joint Infection; correct? A. That is correct. 16 16 17 A. Yes. 17 Q. Is Avidan a study that shows that the Bair Hugger does not increase bacteria to the patient? 18 Q. An S next to Melling and Leitjens, those two 18 19 studies? 19 MR. ASSAAD: Objection to form. 20 20 A. That -- that is a conclusion I would -- I A. Yes. 21 Q. You put an S next to the Scott study. 21 would draw from the Avidan -- Avidan study. A. Yes. Q. You've been asked lots of questions about 22 22 23 Q. Okay. And then last you put an S next to 23 your methodology and you've described various the Association of Perioperative Registered Nurses. methodologies that you've used. Can you --24 24 25 25 Well let me ask this question: Did you rely A. Yes.

	Page 294		Page 296
1	on your background and educational training in	1	A. It's the report of a process at the NIH
2	reaching the conclusions that you did in your expert	2	assessing assessing this question, and the
3	report?	3	conclusion was that it was a safe practice.
4	MR. ASSAAD: Objection to form.	4	Q. It wasn't a study and it wasn't a statement,
5	A. Yes. Yes, I did.	5	it was a letter to the editor from the Moretti study.
6	Q. Did you rely on your clinical experience,	6	Are are you aware of that?
7	the years of clinical experience that you've worked	7	Do you know what the Moretti study is?
8	with the Bair Hugger, in reaching the conclusions that	8	A. Again, sounds it it sounds familiar, but I don't know the details as we sit here.
9	you have in your expert report?	9	
10 11	MR. ASSAAD: Objection to form. A. Yes. Yes.	10 11	Q. I mean you're you're getting paid \$500 an hour to look at documents; correct?
12	Q. You've already testified quite a bit about	12	A. Correct.
13	the literature that you reviewed in reaching your	13	Q. And you got paid \$2,000 just for the first
14	opinions; correct?	14	hour of today's deposition; correct?
15	A. Yes.	15	A. Correct.
16	Q. And some of those articles are listed in	16	Q. And \$200 each every other every other
17	both Exhibit 2, which is the Materials Considered, and	17	hour; correct?
18	the references that are in Exhibit 3, which is your	18	A. Correct.
19	report; correct?	19	Q. And you wrote this report; correct?
20	A. Yes.	20	A. Correct.
21	MR. ASSAAD: Objection to form.	21	Q. And you looked at the articles; correct?
22	MS. LEWIS: Thanks, doctor.	22	A. Correct.
23	THE WITNESS: Thank you.	23	Q. And you can't tell me whether or not
24	MR. ASSAAD: I might have a few follow-up	24	Memarzadeh is a study, a statement, or a letter to the
25	questions.	25	editor?
	Page 295		Page 297
1		1	
1 2	MS. LEWIS: Want to move up?	1 2	A. I I read it some time some time ago
2	MS. LEWIS: Want to move up? MR. ASSAAD: Maybe. We'll see.	2	A. I I read it some time some time ago and I need to refresh my memory.
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2 3 4	MS. LEWIS: Want to move up? MR. ASSAAD: Maybe. We'll see.	2 3	A. I I read it some time some time ago and I need to refresh my memory.
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Page 298 Page 300 Q. So you're relying on Memarzadeh on a CFD 1 MS. LEWIS: Same objection. 1 A. I may have at the time of the initial rev -study that you don't even understand; isn't that 2 2 3 correct? review. Q. Do you know the difference between the 505 4 A. I am relying on the conclu -- the conclusion 4 5 that he and -- he drew. 5 and the 750? 6 Q. But you're not an engineer. You don't 6 A. No. 7 understand the methodology he used, do you, to come to 7 Q. Do you know what blanket was used in 8 that conclusion? Do you? 8 Memarzadeh's study? A. Well if he is rep -- repre --9 9 A. No. Q. "Yes" or "no." Do you understand the CFD 10 10 Q. It was an upper body blanket; wasn't it? A. If you say so. 11 analysis? 11 Q. Well do you know? 12 MS. LEWIS: Stop interrupting him, Gabe. 12 13 Q. "Yes" or "no." 13 A. I just said I didn't. 14 A. Do I --14 Q. Okay. So you just want to draw on a conclusion of a study that you like without knowing 15 No. That is not my expertise, --15 what the device -- what device was used, what blanket Q. Do you know what the Navier-Stokes equations 16 16 was used, and the engineering principles behind the 17 are? 17 18 study. Is that a fair testament of your -- of -- of 18 A. -- that's correct. your -- of your take of the Memarzadeh study? Q. Do you know what the Navier-Stokes equations 19 19 A. Well the conclusions that Memarzadeh 20 are? 20 21 A. No, I don't. 21 communica -- communicated were subject to editorial 22 Q. Okay. So you just take the conclusions of 22 review and come with the imprimatur of the National 23 Memarzadeh without even understanding how he got to 23 Institutes of Health. I find that that's per -his conclusions; do you? Isn't that correct? 24 24 persuasive. 25 A. Correct. 25 Q. Where did you get that information from, Page 301 Page 299 Q. Okay. Did you --1 sir? It's a letter to the editor, it's not peer-Are you aware that in that letter to the 2 2 reviewed. editor he actually indicates that forced-air warming 3 3 A. It's reviewed -- it's reviewed by the slightly disrupts laminar flow? 4 4 editors. A. The conclusion of interest is whether it is 5 5 Q. Yeah. But it's not peer-reviewed. It's not safe -- safe or not, as I've said multiple times. Its peer-reviewed the same --6 impact on lam -- laminar flow is at best tangential to Do you know what peer review is? 7 7 A. I know -- I have been a peer reviewer, I 8 the question. 8 Q. So again you're just picking and choosing know very well what -- what it is. But not every 9 9 statements that you like and disregarding statements 10 10 letter to -- that's sent to a journal is published. that don't like; correct? There is a less-intens -- intensive review process 11 11 MS. LEWIS: Objection, argumentative, -about which letters get published and which don't, and 12 12 this satisfied the editors of the journal. A. I -- I wouldn't say that. 13 13 14 MS. LEWIS: -- misstates his testimony. 14 Q. But it's not peer-reviewed; correct? 15 Q. Were you aware that in the Memarzadeh letter 15 A. Normally it is not. to the editor and the study he found that the 505 Q. Okay. Do you know -- do you know whether or 16 16 disrupted laminar flow? Are you aware of that? "Yes" not Memarzadeh used draping in his CFD analysis? 17 17 or "no." 18 18 A. I don't know the details --19 MS. LEWIS: Objection, form. 19 O. Okay. 20 A. I -- I have said I don't believe that the 20 A. -- of the Memarzadeh study. discussion of laminar flow informs my opinion about 21 21 Q. So you were provided that paper by defense counsel, you just cited to it because it sounds good. 22 the safety of the Bair Hugger. 22 A. I don't know whether --23 Q. Can you please answer my question. Were you 23 aware that in the study he said the 505 disrupted 24 24 Q. Got it. 25 25 laminar flow? A. -- it was provided or I found it in my own

	Page 302		Page 304
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	literature search. Q. Let's talk about ECRI. You reviewed you reviewed the ECRI article, correct, the literature review? A. Yes. Q. Is there one statement in ECRI that says the Bair Hugger is a safe device? A. Verbatim? Q. Even if it comes close. A. Yes. The conclusion of EC EC ECRI is that it is it is safe to use. Q. It says, "Consequently, ECRI Institute does not believe that the currently available evidence justifies discontinuing the use of forced-air warming during surgery." You interpret that as saying the Bair Hugger is safe? A. Yes. Q. You do? A. Yes, I do. Q. So then if it's safe, why do they say, "We will continue to monitor this topic through the published literature and will update our recommendation as warranted?" A. New evidence may become avail available.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	THE REPORTER: Off the record, please. (Deposition concluded.)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Q. No. They're just saying there's not enough evidence at this point in time. A. No, they did Q. Okay. A they did not say that. Q. Okay. International Concensus says further research is warranted. Are you aware of that? A. Yes. Q. Okay. ECRI says they're going to monitor it; correct? A. Yes. Q. Okay. (Discussion off the stenographic record.) Q. Do you even acknowledge there's a theoretical risk that the Bair Hugger can cause a surgical-site infection? MS. LEWIS: Objection to form. A. I know no basis for that theory. Q. So even though the International Concensus has a basis for that statement, you have no basis. A. I Correct, I have no I have no basis. MR. ASSAAD: That's all I have. THE REPORTER: Anything further? MS. LEWIS: No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 305 CERTIFICATE I, Richard G. Stirewalt, hereby certify that I am qualified as a verbatim shorthand reporter, that I took in stenographic shorthand the deposition of ALEXANDER A. HANNENBERG at the time and place aforesaid, and that the foregoing transcript is a true and correct, full and complete transcription of said shorthand notes, to the best of my ability. Dated at Deerwood, Minnesota, this 14th day of August, 2017. RICHARD G. STIREWALT Registered Professional Reporter Notary Public

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CERTIFICATE 1 CERTIFICATE 2 I, ALEXANDER A. HANNENBERG, hereby certify 3 that I have carefully read the foregoing transcript, 4 and that the same is a true and complete, full and 5 correct transcription of my deposition, except: 6 PAGE/LINE CHANGE REASON 7 8 9	
10 11 12 13 14 15 16 17 ALEXANDER A. HANNENBERG	
18 Deponent 19 20 Signed and sworn to before me this day of 21 September, 2017. 22 23	
24 Notary Public 25	